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ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳ

BANGALORE WATER SUPPLY & SEWERAGE BOARD

O/o Chief Engineer(UWP), 5th Floor, Cauvery Bhavan, Bangalore-560009.

No. BWSSB/CE(UWP)/DCE(WWM-E&W)/TA-1/ 685 /2025-26 Date : 18/02/2026

ADDENDUM

Sub: Work of Design construction, commissioning of 50 MLD STP with additional secondary sludge from existing 50 MLD STP based on SBR with BNR with tertiary Treatment and power generation & odour control units at Kadabeesanahalli including Operation and Maintenance of 7 years.(Turnkey contract)-Call-2

Ref: BWSSB/CE(UWP)/DCE(WWM-E&W)/TA-1/585/2025-26 Dt :30-10-2025

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With reference to the above subject, invitation for this tender was invited vide IFT mentioned in reference letter this Addendum indicates the details of response to the pre bid queries.

Chief Engineer(UWP)
BWSSB

Encl: Replies Pre bid Queries

BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)

NAME OF PROJECT : DESIGN CONSTRUCTION, AND COMMISSIONING OF 50 MLD STP BASED ON SBR WITH BNR, TERTIARY TREATMENT AND POWER GENERATION WITH ADDITIONAL SECONDARY SLUDGE FROM EXISTING 50 MLD STP & ODOUR CONTROL UNITS AT KADABEESANAHALLI INCLUDING 7 YEARS OF OPERATION & MAINTENANCE (TURNKEY CONTRACT) - 2nd Call

REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED 13.02.2026

Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
1	Volume 2/ Section 7, Part 5-50, Cl. 5.22.1 Page. No: 132	Disc filter	We understand that provision of a fine filtration system is mandatory under the tender. However, bidders may propose any suitable fine filtration technology as per their process design, provided it achieves the guaranteed outlet parameters of BOD ≤ 10 mg/L and TSS ≤ 10 mg/L. Kindly confirm if this interpretation is correct.	Tender Conditions Prevails
2	Volume 2/ Section 7, Part 5-36, Cl. 5.22.1 Page. No: 118	TSPS & STP Design/Sizing Criteria and Minimum Requirements: Below Notes are pertaining to design and sizing criteria specified in following tables: a) All the process unit sizes/volumes specified are minimum. b) All the building dimensions (or Area when calculated) specified are minimum; However, Contractor may upsize these dimensions (or Area when calculated) based on design to meet the specified tender requirements.	We request that the size / volume of various units as well as equipment list with its capacity etc. provided in the bid to be considered as indicative and not minimum requirement. Bidder be allowed to design plant / equipment / units as per criteria indicated in Metcalf Eddy / CPHEEO manua to meet the final treated effluent requirements. Kindly confirm	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
3	Volume 2/ Section 7, Part 5-37 & 5-38, Cl. 5.22.1 Page. No: 119 & 120	TSPS & STP Design/Sizing Criteria and Minimum Requirements: Treated Biogas Quality Requirements H2S Maximum : 100 ppm Moisture (H2O) max: 5 g/m3	We request you that H2S in treated biogas be permitted < 500 ppm or as per engine manufacturer recommendation.We also request you to remove the moisture requirement in the treated biogas and also remove the provision of associated equipment for the same. Kindly confirm	Maximum H2S in the scrubber outlet gas shall be as per Original Equipment manufacturer(OEM)design.
4	Volume 2/ Section 7, Part 5-38, Cl. 5.22.1 Page. No: 120	TSPS & STP Design/Sizing Criteria and Minimum Requirements: Odour levels and Noise levels	Kindly remove the requirement of odour level at outlet of odour contorl unit and plant boundary. We also request you to remove noise levels within process buildings and plant boundary from the outlet requirements	Both removed at Plant Boundary.
5	Volume 2/ Section 7, Part 5-45, Cl. 5.22.1 Page. No: 127	Secondary treatment SBR, n-1 condition : Secondary treatment SBR, n-1 condition : Bidder shall provide calculations for operating the STP at Design flow with 1 SBR tank offline for maintenance	We request you to remove n-1 condition for SBR system	Bidder to note that N-1 condition is not mandatory
6	Volume 2/ Section 7, Part 5-48, Cl. 5.22.1 Page. No: 130	Blower type: Centrifugal turbo blower with VFD type	We request you to allow Tri lobe blowers for aeration.	The blowers for Air Diffusers system shall be Turbo Blower/Tri Lobe type, Bidder shall ensure noise level as Per IS Code to be maintained, with necessary acoustic arrangement to be Provided by the bidder.
7	Volume 2/ Section 7, Part 5-48, Cl. 5.22.1 Page. No: 130	Diffuser arrangement: 'H' type retrievable diffuser arrangement (Maximum 8 diffusers only of each less than or equal to 1m in length)	We request that bidder be allowed to choose Diffuser arrangement and type as per his design and requirement.	Tender Conditions Prevails
8	Volume 2/ Section 7, Part 5-49, Cl. 5.22.1 Page. No: 131	Alum dispersion mixer, alum dosing sytem	We request that alum dosing provision and alum dispersion mixer requirement be left upto the bidder to provide as per his requirement	Tender Conditions Prevails
9	Volume 2/ Section 7, Part 5-54, Cl. 5.22.1 Page. No: 136	Anaerobic digester - Digestion process: Single stage high rate anaerobic mesophilic type, designed to operate with a constant liquid level with heating and dual mixing system Dual Mixing system : Biogas injection with hydraulic circulation to promote synergistic effect for reduction of VSS in the Digester	We request that the bidder be allowed to provide single mode of hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps as per his design. Moreover, bidder may propose digester heating through gas engine exhaust recovery as per his own design and requirements. Kindly confirm	The bidder shall provide hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps, subject to meeting the required mixing intensity, circulation rate, and overall performance criteria specified in the tender
10	Volume 2/ Section 7, Part 5-54, Cl. 5.22.1 Page. No: 136	Anaerobic Digester- Reactor type: RCC Structure, fixed roof with complete internal epoxy coating	We request that bidder be allowed to have double membrane digester dome instead of RCC. Kindly confirm	Tender Conditions Prevails. Refer Part 5.
11	Volume 2/ Section 7, Part 5-54, Cl. 5.22.1 Page. No: 136	Anaerobic Digester- Inside monitoring of digester - Top Insertion type high quality video camera suitable for selected application shall be installed to monitor the inside activity (real time) of digester through PLC/SCADA and at locally.	Considering less optical visibility inside the closed digester, meaningful imaging will not be possible. Moreover wiithout a clear sight path and frequent cleaning restrictions, it is not practically feasible to use the camera for monitoring during 7 years of O&M. We request to delete this requirement from the scope of work.	Inside monitoring of digesters are not required.
12	Volume 2/ Section 7, Part 5-56, Cl. 5.22.1 Page. No: 138	Anerobic digester Digester heat exchanger	We request that bidder may propose heat exchanger system to maintain required temperature inside sludge digester to generate power with biogas engine and the provision must be optional as per bidder's design. Kindly confirm	Tender Conditions Prevails. Can be reviewed during detailed engineering.
13	Volume 2/ Section 7, Part 5-56, Cl. 5.22.1 Page. No: 138	Anerobic digester Digester hot water boiler	We request that the heating requirement of digester be left upto bidder's design and requirment and should not be mandatory. Kindly confirm. Further if bidder provides hot water boiler, then the source of fuel be either biogas or waste heat recovery from gas engine and the provision of secondary heavy fuel must be removed from the scope. Kindly confirm.	Noted . Tender condition prevails. During detailed engineering, bidder shall demonstrate the heat recovery & digestor heating requirements as per tender requirement

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REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED 13.02.2026

Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
14	Volume 2/ Section 7, Part 5-57, Cl. 5.22.1 Page. No: 139	Biogas storage tanks - RCC tank with fully epoxy coating installed with floating steel gas holder cover with 1609 m3 storage capacity each	Wer request bidder be allowed to use double membrane gas holder in place of RCC tank with floating gas holder - 2 nos of 600 m3 capacity each. however, in that case, the gas dome volume on the digester shall be only to collect the gas and not for storage.	Tender Conditions Prevails. Refer Part 5.
15	Volume 2/ Section 7, Part 5-57 & 5-58, Cl. 5.22.1 Page. No: 139 & 140	Biogas flare, biogas scrubber capacity and quantity	We request that bidder be allowed to provide only working (NO standby) biogas flare and scrubber with the capacity and quantity as per his process design and requirement. Pl confirm	Noted & Confirmed. Associated blowers and pumps shall have standby as per tender.
16	Volume 2/ Section 7, Part 5-58, Cl. 5.22.1 Page. No: 140	Biogas Scrubber	We request that Single biogas scrubbing system sized to handle the biogas flow as per bidder's design shall be provided, as required for operation. However, the scrubber will be designed to handle inlet H2S of 2500 ppm and to achieve outlet H2S content in scrubbed biogas < 500 ppm or as per engine manufacturer recommendation	Bidder to consider as per engine manufacturer recommendation
17	Volume 2/ Section 7, Part 5-58, Cl. 5.22.1 Page. No: 140	Biogas dryer	We request that provison of biogas dryer be kept optional as per bidder's design and requirement	Tender Conditions Prevails.
18	Volume 2/ Section 7, Part 5-58, Cl. 5.22.1 Page. No: 140	Biogas Engine - Installed capacity per unit - 1500 KW capacity	We request that the capacity of biogas engine shall be as per bidder's design and his requirement.	Noted. During detailed engineering, based on the equipment of similar capacity available in the market based on OEM Design ,appropriate decision shall be taken.
19	Volume 2/ Section 7, Part 5-58, Cl. 5.22.1 Page. No: 140	Power Generation a) Minimum gas efficinecy 40%	a) Min 40% efficiency requirements, restrict competitive bidding. We request 35 % gas efficiency be allowed.	Bidder to provide 35% of gas efficiency.
20	Volume 2/ Section 7, Part 5-59, Cl. 5.22.1 Page. No: 141	Centrifuge feed sump - Top of the sump shall be covered with RCC slab with access manholes and staircase with submersible mixers for mixing	Please allow open sump for ease of maintenance of mixers during O&M	Tender Conditions Prevails
21	Volume 2/ Section 7, Part 5-60, Cl. 5.22.1 Page. No: 142	Poly storage 30 days	Poly storage of 30 days for the capacity specified is huge. We request that storage duration be revised to 15 days requirement	Tender Conditions Prevails. Refer Part 5.
22	Volume 2/ Section 7, Part 5-63 & 5-64, Cl. 5.22.1 Page. No: 145 & 146	Odour control units	We request to remove odour control unit from the scope of work.	Tender Conditions Prevails
23	Volume 2/ Section 7, Part 5-55, Cl. 5.22.1 Page. No: 137	Process requirements: Anaerobic digesters	We are providing complete sludge mixing system for digester sludge mixing and hence we don't require additional storage of grit and scum storage of 0.5 m3 depth each as we can utilize hopper bottom of the digester. Moreover the slope of the hopper of digester shall be as per CPHEEO. Pl confirm	The bidder shall provide adequate space for grit and scum accumulation, along with the hopper bottom slope in accordance with CPHEEO guidelines, ensuring that the minimum digester volume specified under Part-5 of the tender document is fully met.
24	Volume 2/ Section 7, Part 5, Cl. 5.22.1 Page. No: 125	Process requirements: MOC of wetted parts Primary, Secondary clarifier mechanisms	We understand MOC of the wetted parts of primary and secondary clarifier mechanisms shall be MS Epoxy painted. Pl confirm	Noted and Confirmed
25	Volume 2/ Section 7, Part 5, Cl. 8.44.1 Page. No: 470	MOC of pipes	We note that there is ambiguity in the tender regarding the Material of Construction (MOC) of pipelines and valves, with indicative references provided at separate places. To avoid inconsistency, we request confirmation of the applicable MOC to be adopted uniformly. Further we request you to consider the following: (1) The MOC of digester gas and biogas piping may be considered as GRP / SS 304 (2) MOC of Pipes for aeration system, process air and backwash air be considered as SS 304 . Kindly confirm	Tender Conditions Prevails
26		Design, construction and commissionign of pipelines, conduits for the disposal of treated plant effluent to nearby water body	We request you to furnish approximate length of disposal line for disposal of treated plant effluent from STP to nearby water body.	Bidder to field verify.
27		Project requirements Providing STP physical model of constructed facilities including existing system	we request you to consider to exclude the requirement to provide the STP physical model of constructed facilities, including the existing system from the scope of work	Noted and Confirmed
28		Project requirements Providing complete 3D animation of the plant processes and its associated systems with audio voiceover. This shall cover the complete plant and all assoicate systems including civil, mechanical, electrical, instrumentation, control and automation systems	To ensure cost efficiency, we kindly request confirmation on removing the requirement for complete 3D animation of the plant processes and associated systems with audio voiceover from the scope of work	Tender Condition prevails. This shall be required only during final plant inauguration.

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REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED 13.02.2026

Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
29		Project requirements All type of server and computer based software should be updated to latest version of hardware and software	The tender specifies that all types of server and computer-based software should be updated to the latest version of hardware and software. Since the term 'latest version' is open-ended and subject to frequent changes, kindly clarify whether a specific baseline version (e.g., current stable release at the time of contract award) can be defined, or whether updates should be limited to security patches and critical upgrades only. This will help ensure cost predictability and avoid scope ambiguity.	Bidder to consider latest version as on date of tender notification
30	Volume2, Section 7, Section 7 Sr no 1.3 Page 1-4	Contractor shall coordinate with KSPCB, BBMP, BESCOM, LDA and any other Departments and obtain all applicable consents certificates necessary for the design, build (construction) and operation & maintenance of the Works as described in the contrac	As BWSSB is the owner of the plant, application and payment of necessary fees to be made by BWSSB. However successful bidder will coordinate for obtaining required consent.	Application and payment of necessary fees for getting required consent and clearances from state and central (KSPCB, PESO,) authority to set up and operate the proposed plant shall be made by BWSSB. However successful bidder will coordinate for obtaining required consent.
31	Volume2, Section 7, Part 7.6, Cl. 7.3, Page 258	Bid submission for technical qualification Provide an operating system and software applications list with descriptive literature for the proposed system. Include all major software items, supplier name, quantity, and model numbers. Indicate whether any proposed software is proprietary and would not be turned over to the owner. Note: Proprietary software will not be accepted. 6. Technical details are required for the following without any deviation as per bid requirements: - Name and version of the proposed SCADA software Package. - Name and version of the PLC on-line/off-line programming software for all controllers, inclusive of vendor supplied systems (if any). - Name and version of the PLC - Name and version of the PLC I/O Modules - Name and version of Historian software - Name and version of any required communications software, firmware, etc. - Name and version of the specified report application software, - Name and version of the specified Plant Asset Management System (PAMS Software) & agency as per bid requirements - Name and version of the specified Laboratory Information Management System (LIMS) software & agency as per bid requirements - Provide a description of any non-resident software required to program, troubleshoot or	Please delete sr no 5 and 6 requirements from bid submission. These details are exhaustive and can be provided at the time of detailed engineering. Pl confirm	Bidder to provide during detailed engineering after award of work.
32	Volume 2/ Section 7, Part 18, Page. No: 1065-1075	Notes: 1) Contractor to submit unit process/ equipment/facility/building wise construction approach and methodology, prior to start of each/any type of constructional acitivity at site 2)It shall be mandatory for contractor to take prior approval on EMP and EMoP document based on the requirements as specified in Part 18 of the tender document	We request removal of the requirements of EMP/EMoP documents from the scope of work	Tender Conditions Prevails
33	Volume 2/ Section 7, Part 1-7, Cl. 1.11 Page. No: 13	Contractor shall mobilize the entire Design team to office in bengaluru. The entire design team shall be exclusively drafted to work on this project and shall not be assigned any other project till completion of this project	The tender specifies that the contractor shall mobilize the entire design team to the office in Bengaluru, and that the team shall be exclusively dedicated to this project until completion of the project. Considering the significant cost and resource implications of this requirement, could you please clarify whether this obligation may be relaxed or excluded from the scope of work—for example, by allowing partial mobilization, remote collaboration, or permitting the design team to work on other projects concurrently.	Tender Conditions Prevails

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
34	Volume 2/ Section 7, Part 13 , Cl. 13.2 Si no 4 Page. No: 821	Particular Instrumentation control and automation requirement: Design supply, install, test and commission laboratory equipment & laboratory information management system (LIMS system) for entire STP and same shall be integrated in real time with plant scada system	we request scope of design, supply, install, test and commission for LIMS System o be deleted. The Real time monitoring data of online inlet and outlet real time analyzer to be integrated with plant scada system. Pl confrim	Tender Conditions Prevails The bidder shall consider the following to be deleted 1) Individual/benchtop, PH meter at lab 2) Portable Turbidity meter 3) Online TOC meter at lab, if the same is provided and installed as part of online multi parameter filed instrumentation.
35	Volume 2/ Section 7, Part 7-10 , Cl. 7.5, Page. No: 262	Particular Instrumentation control and automation requirement: Qualification requirements for lab equipment agency. Agency shall be authorized channel partner for the equipment. The agency shall have executed & completed at least ten projects for setting up of STp/drinking water lab and testing facility within Inida in Public sector units/govt. agencies during the last five years peirod inclusive of supply,' installation , commissioning of the laboratory equipment. Verification end user perofrmacne certificates shall be submitted for the same	In case successful bidder has experience of Design, build, procure, commission, test and operation of STP proejct of similar capacity having laboratory donot require separate agency qualification for laboratory equipment.pl confirm	Confirmed
36	Volume 2/ Section 7, Part 13 , Cl. 13.2 Si. No. 4, , Page. No: 821	Hardware : LIMS Station	we request you to delete LIMs requirment from scope of work as the data of real time monitoring analyzers is connected to SCADA	Tender Conditions Prevails
37	Volume 2/ Section 7, Part 13 , Cl. 13.2, Page. No: 821	Particular Instrumentation control and automation requirement, Laboratory Instruments and LIMS system: Laboratory shall be equipped with LIMS software, lab instruments, equipments, chemicals and other infrastructure that is necessary to perform the routine analysis for parameters as detailed in table below	we understand the laboratory shall be equipped with Laboratory instruments, equipment, chemical and other infrastucture necessary to perform the analyis for the guaranteed parameters defined for outlet quality elsewhere in the tender. Pl confirm	Tender Conditions Prevails
38	Volume 2/ Section 7, Part 13 , Cl. 13.2,	Particular Instrumentation control and automation requirement, Laboratory Instruments and LIMS system: Specifications for laboratory instruments	We note that the specifications provided for certain laboratory equipment are exhaustive and may extend beyond the requirements necessary to analyze the guaranteed outlet quality parameters. Kindly review and confirm whether these specifications can be rationalized to cover only essential features and performance standards, in order to avoid unnecessary cost escalation and ensure practical compliance.	Tender Conditions Prevails The bidder shall consider the following to be deleted 1) Individual/benchtop, PH meter at lab 2) Portable Turbidity meter 3) Online TOC meter at lab, if the same is provided and installed as part of online multi parameter
39	Volume 2/ Section 7, Part 13	Particular Instrumentation control and automation requirement, Approved Vendor / Manufacturer / Make List -Instrumentation: Laboratory equipment make	pl add M/s HACH , M//s. AQUA SCIENTIFIC INSTRUMENTS PVT LTD, M/S. MYM as approved supplier for laboratory equipment	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
40	Volume 2/ Section 7, Part 11-5 , Si no 4 Page. No: 762	BIOREACTOR (i) Anoxic zone (3A) Mixers	we understand Store stanby requirement is not mandatory	Shall be Provided during O&M Period.
41	Volume 2/ Section 7, Part 11-5 , Si no 4 Page. No: 762	BIOREACTOR (ii) Aeration tank (3A) Air diffusers	To avoid redundant provisioning, may we request confirmation that the spares for air diffusers are not required, as their standard life is 10 years	Shall be Provided during O&M Period.
42		Size of sturctural units: Building sizes	We understand that bidder can provide the building sizes as per his requirement. Please confirm.	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
43	Volume 2/ Section 7, Part 5 , Cl. 5.16, Page. No: 105	minimum requirement of sizes as per NIT	To ensure design flexibility and cost efficiency, we request confirmation that the sizes mentioned in Clause 5.16.1 are tentative, and bidders can adopt sizes based on their process design carried out as per CPHEEO or Metcalf Eddy.	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender..

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
44	Volume 2/ Section 7, Part 8 & 11-9 Sr.no 1 , Page. No: 766	Gas holder cover	In detailed mechanical specifications, it is mentioned that floating gas holder cover shall be provided for each digester. But in Equipment list and in NIT drawings, membrane gas holders are specified. We understand that bidder can propose either floating cover or membrane type gas domes for digester / gas holders. Please confirm.	Tender Conditions Prevails. Refer Part 5.
45	Volume 2/ Section 7, Part 8 , Cl. 8.26, Page. No: 403	for digester mixing system, there are specifications for digester recirculation pumps, digester gas mixing blowers, draft tube mixers, horizontal centrifugal pump, etc.,	Please confirm bidder can choose to provide single mode of hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps as per his design.	The bidder shall provide hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps, subject to meeting the required mixing intensity, circulation rate, and overall performance criteria specified in the tender
46	Volume 2/ Section 7, Part 8 , Cl. 8.28, Page. No: 406	Speciifcations for biogas engine may vary from vendor to vendor.	To ensure practical compliance and cost efficiency, may we request confirmation that the tender specifications are indicative only, and that final specifications can be adopted as per the approved gas engine manufacturer	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
47	Volume 2/ Section 7, Part 8 , Cl. 8.28, Page. No: 406	d) Ventilation of Engine room - the engine room should be well ventilated by forced ventilators with minimum ten times per hour air charge rate.	We request that Wet type forced ventilation system can be provided with air changes sufficient to maintain engine combustion inlet air temperature at around 35°C during summer season. Kindly Confirm	Tender Conditions Prevails
48	Volume 2/ Section 7, Part 8 , Cl. 8.28, Page. No: 406	Approved make for biogas engine and auxilary power generation system	we request M/s. Guascor and M/s. GGE be added to Biogas engine and auxilary power generation system approved make	Already Included, Refer Part 8 Approved Vendor List.
49	Volume 2/ Section 7, Part 8 , Cl. 8.28, Page. No: 406	Approved make for Biogas flare and biogas scrubber	we request M/s. GGE be added to Biogas flare and Biogas scrubber approved make	Already Included, Refer Part 8 Approved Vendor List.
50	Volume 2/ Section 7, Part 5 , Cl. 5.10, Page. No: 92	For Liquids- holding structures, the drain piping and fittings shall be sized such that the entire structure can be drained by gravity in no more than eight (8) hrours. The Plant Drain Pumping Station, Plant drain pumps and other related equipment and controls shall be designed and sized to allow draining of the structure with the largest volume from full to empty within eight (8) hours.	With respect to drain provision clause, we request that Bidder be allowed to provide plant drain sump as per bidder's design to collect drain water from inlet pre treatment units and wash water from the dosing area. Morever, bidder to be allowed to pump from Aeration tank / Secondary biological units to adjacent tank as per process requirements using suitable capacity store standby dewatering pumps. All sludge units including clarifier sludge may be drained through relevant pumps and finally sent to mechanical dewatering unit. Further the chlorine contact tank can be drained to final discharge point. Kindly confirm	The Proposed arrangement is also acceptable
51	Volume 2/ Section 7, Part 5-7 , Cl. 5.12, Page. No: 89	All Internal plant roads of minimum 5m clear width. & All the roads shall have minimum width of 5.0m (excluding side shoulders) and minimum Curb radius of 5.0m.	We request you to allow Plant internal roads of 3.5 m width as accepted for other treatement plants of BWSSB.	All Internal roads shall be 3.5m with 1.5m shoulder
52	Volume 2/ Section 7, Part 3-13 , Cl. 3.10.5, Page. No: 39	The Contractor shall provide at his own cost for the exclusive use of the staff of the Engineer all survey equipment and measuring instruments of approved make and of every kind necessary for the execution of the Works	As all the survey work during entire construction period is contractor's responsibility and he shall arrange all the facilities. Hence this is not necessary. Kindly confirm	Confirmed
53	Volume 2/ Section 7, Part 5-7 , Cl. 5.12, Page. No: 89	All process buildings including electrical and pumping stations shall be provided with access doors on all four (4) sides of the walls to enable easy exit from any direction during emergency as depicted in the typical layout of Volume 3 – Drawings.	We request that this requirement be modified to provide access doors on two (2) sides only, which is sufficient and consistent with standard engineering practice for such buildings. Kindly confirm.	Confirmed
54	Volume 2/ Section 7, Part 5-8, Cl. 5.12, Page. No: 90	A minimum 1500mm wide continuous walkway shall be provided for walkthrough of complete liquid stream process units. This walkway shall start at the Inlet Chamber of the TSPS/STP, proceed through each process unit, and end at the Chlorine contact tank outlet channel, followed by sludge stream units, and finally terminating at the PLC/SCADA room. Where the walkway crosses internal plant roads, the crossing shall be clearly painted and marked as "WALKWAY."	The tender specifies that a minimum 1500 mm wide continuous walkway shall be provided for walkthrough of the complete liquid stream process units, starting at the Inlet Chamber of the TSPS/STP and terminating at the PLC/SCADA room, with crossings clearly marked as 'WALKWAY.' However, due to multiple internal road crossings and clear height constraints at site, provision of a continuous walkway from TSPS to the Chlorine contact tank outlet channel is not feasible. In view of site constraints, instead of continous walkway, interconnections between units may be provided wherever feasible, as finalized during the detailed engineering stage. Kindly confirm	Shall be based on Detailed Engineering
55	Volume 2/ Section 7, Part 5-8, Cl. 5.12, Page. No: 90	All process and non-process buildings including pumping stations shall be provided with wall mounted digital display touch screen of size 15 inches to digitally display real time temperature and noise level of the respective buildings, and same shall be connected through plant PLC based SCADA for remote monitoring/display.	We request that this requirement be deleted from the scope of work	Can be decided during Detailed Engineering

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
56	Volume 2/ Section 7, Part 5-8, Cl. 5.12, Page. No: 90	Design of Plant Layout: Pole / Wall Mounted, outdoor LED display screen (Video wall) of size (55"each in a 2x3 display array) shall be placed near the main entrance gate to digitally display all the real-time parameters of the STP as indicated in Paragraph 5.2, 5.3, 5.4, 5.8, 5.6 and 5.7 and any other information as appropriate and as directed by Engineer.	We request that this requirement be deleted from the scope of work	Deleted
57	Volume 2/ Section 7, Part 5-11, Cl. 5.13, Page. No: 93	All channels carrying process liquid shall be fully covered with solid non-skid GRP/FRP cover access manholes (not grating) designed for human traffic live loads at a minimum and heavy vehicle live load wherever the channel crosses traffic paths.	We presume that RCC walkways are to be provided where human crossing is required and RCC slabs where vehicular crossing is required. Accordingly, we request confirmation that the entire channel need not be covered. Kindly confirm	Can be decided during Detailed Engineering
58	Volume 2/ Section 7, Part 5-15, Cl. 5.13, Page. No: 97	Contractor is required to install thermal cameras in designated zones such as digester and biogas handling area (For the biogas requirement Refer Paragraph 5.22), these thermal cameras are additional requirements apart from CCTV monitoring system that specified elsewhere in the bidding document.	We request you to exclude the requirement for thermal cameras in digester and biogas handling areas from the scope of work.	Deleted
59	Volume 2/ Section 7, Part 5-11, Cl. 5.13, Page. No: 93	Sky blue porcelain like finish (tiles) shall be provided at he following locations to ensure a clear view of the treated water, facilitating easy visual inspection.	We request that the application of sky blue PU paint be permitted instead of tiles, as this option is operationally preferred and offers ease of maintenance for the unit. Kindly confirm.	Tender Conditions Prevails
60	Volume 2/ Section 7, Part 10B-6, Cl. 1.7, Page. No: 728	Dead Load: Weight of soil (irrespective of strata available at site and type for filling etc) - 20.00 kN/m^3	The tender specifies soil weight as 20.00 kN/m^3 irrespective of strata or type of filling. We understand that, except for liquid-retaining process structures, all other structures/structural elements shall be designed as per IS: 456, and soil weight shall be taken from the approved geotechnical report. Kindly confirm	As per IS latest and its amendment
61	Volume 2/ Section 7, Part 10B-7, Cl. 1.8, Page. No: 729	Live Load: Live load on floors supporting equipments such as pumps, valves, blowers, compressor, etc - 10.00 kN/m^2	We understand that if a live load of 10 kN/m^2 is considered for floors with machines, then machine loads need not be considered in addition. Alternatively, machine loads may be taken as per supplier drawings, and for areas other than machines, a live load of 5 kN/m^2 may be adopted. Further, the part of the floor below machines may be designed for 5 kN/m^2. Kindly confirm	As per IS latest and its amendment
62	Volume 2/ Section 7, Part 10B-7, Cl. 1.13, Page. No: 729	Joints: Expansion joints of suitable gap at suitable intervals not more than 30 m shall be provided in walls, floors and roof slabs of liquid retaining structures and not more than 45m for buildings	The tender specifies expansion joints at fixed intervals (≤30 m for liquid-retaining structures and ≤45 m for buildings). However, as per IS 3370 Clause 9.2.4, states as under **9.2.4** Structures may be provided with movement joints if effective and economic means cannot otherwise be taken to avoid unacceptable cracking. In view of this, kindly confirm that movement (expansion) joints may be omitted with consideration of temperature load.	Noted. Shall be reviewed during detailed engineering
63	Volume 2/ Section 7, Part 10B-12, Cl. 1.16, Page. No: 734	The following minimum thickness shall be used for different reinforced concrete members, irrespective of design requirements: (i) Wall for liquid retaining structure: 250 mm (ii) Roof slabs for liquid retaining structures: 200 mm (iii) Bottom slabs/Raft for liquid retaining structure: 300 mm (v) Walls of cables/pipe trenches, baffle walls underground pits etc ; 200 mm (xi) Launder slab/ baffle wall : 200 mm (Xii) Launder vertical wall, Baffle wall, Gutter slab : 175 mm (xiii) Grade Slabs : 200 mm	To ensure cost efficiency we request you to consider the following minimum thickness for different reinforced concrete members (i) Wall for liquid retaining structure: 200 mm (ii) Roof slabs for liquid retaining structures: 150 mm (iii) Bottom slabs/Raft for liquid retaining structure: 200 mm (v) Walls of cables/pipe trenches, baffle walls underground pits etc ; 150 mm (xi) Launder slab/ baffle wall : 150 mm (Xiii Launder vertical wall, Baffle wall, Gutter slab : 150 mm (xiii) Grade Slabs : 150 mm	Tender Conditions Prevails
64	Volume 2/ Section 7, Part 5-21, Cl. 5.14, Page. No: 103	Hydraulic Design Requirement: The termination end of the all side-to-side baffle walls in the chlorine contact tank shall be provided with the semicircular end.	For construction ease, we request that this requirement be omitted. Kindly confirm.	Tender Conditions Prevails
65	Volume 2/ Section 7, Part 5-21, Cl. 5.14, Page. No: 103	The termination end of the all side-to-side baffle walls in the anaerobic & anoxic zones of the bioreactor tank, shall be provided with the semicircular end	For construction ease, we request that this requirement be omitted. Kindly confirm.	Tender Conditions Prevails
66	Volume 2/ Section 7, Part 5-21, Cl. 5.14, Page. No: 103	All corners of the Bioreactor tanks in contact with the liquid shall be provided with the fillet having minimum radius of 600mm.	For construction ease, we request that this requirement be omitted. Kindly confirm.	Tender condition prevails .However where tiling is specified, it is not applicable.

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67	Volume 2/ Section 7, Part 5-21, Cl. 5.14, Page. No: 103	All corners in contact with the liquid in sludge storage tank/sump and any other storage tank/sump shall be provided with the fillet having minimum radius of 450mm.	For construction ease we request that this requirement be omitted. Kindly confirm.	Tender Conditions Prevails
68	Volume 2/ Section 7, Part 5-51, Cl. 5.22.1, Page. No: 133	Chlorine Contact Tank: Rectangular tank with inlet and outlet channels. Inside configuration of tank shall be such that it shall create the three pass flow to meet the design condition. Also, all inside corners of tank shall be filleted.	For construction ease, we request that this requirement be omitted. Kindly confirm.	Tender Conditions Prevails
69	Volume 1, Apendix 6, Page 136 & 137	Damages for Failure to Pass the Tests on Completion and during the O&M Period. Effluent Quality: Failure to achieve the specified effluent quality requirement at the outlet of the chlorine contact tank during Test on Completion: • Damages as Percent of the Contract Price for each additional "quantum" (as defined below) of the effluent quality parameter, or part thereof, beyond the specified maximum concentration, present in the actual effluent produced during the Tests on Completion. The maximum concentration at plant effluent shall be based on Daily basis. **Percent of (STP) Work Contract Price** — **For each additional or part of parameter:** 2% — 2 mg/L, BOD 2% — 2 mg/L, TSS 2% — 2 mg/L, TN 1% — 10 mg/L, COD 1% — 0.2 mg/L, TP 2% — 20 MPN/100mL, Fecal Coliform For STP, Damages shall not exceed 10% of that Works Contract Price. Further, all remedies other than damages, including but not limited to construction of additional facilities, additional equipment and repair and/or replacement of the installed equipment shall continue to be fully available to the Employer, and the Employer may choose to invoke any or all of them at any time in accordance with the terms of the Contract.	The penalties for not meeting the functional guarantees during tests on completion are very exorbitant, we request BWSSB, to review the penalty clause. We propose that the penalty for each paramter per day must be defined with a specified value similar to that adopted by various municipal corporations in India. Further we also request you to limit the maximum amount of penalty to a defined value in Rs for the duration of Tests on Completion instead of maximum of 10% of the works contract price. Kindly review and revise the said clause.	Tender Conditions Prevails
70	Volume 1, Apendix 6, Page 136 & 137	Damages for Failure to Pass the Tests on Completion and during the O&M Period. Effluent Quality: Failure to achieve the specified effluent quality requirement at the outlet of the chlorine contact tank during the O&M Period • Performance Damages as Percent of the O & M Monthly payment of STP For STP that fails to pass the Tests during O & M period for each additional "quantum" (as defined below) of the effluent quality parameter, or part thereof, beyond the specified maximum concentration **Parameter of (STP) O & M Monthly payment** — **For each additional or part of parameter** 2% — 2 mg/L, BOD 2% — 2 mg/L, TSS 1% — 10 mg/L, COD 1% — 2 mg/L, TN 1% — 0.2 mg/L, TP 2% — 20MPN/100mL Feed coliform	The penalties for not meeting the functional guarantees during O&M period are very exorbitant, we request BWSSB, to review the penalty clause. We propose that the penalty for each paramter per day must be defined with a specified value similar to that adopted by various municipal corporations in India. Further we also request you to limit the maximum amount of penalty to a defined value in Rs. for the said month subject to maximum of 10% of the monthly O&M bill instead of maximum of 10% of the works contract price. Kindly review and revise the said clause.	Tender Conditions Prevails
71	Volume 1, Apendix 6, Page 137	**Chemicals and material** Consumption: Excess consumption of Chemical & materials for Operating and Maintaining of STP and related facilitates	Procurement of required chemicals during O&M is in the scope of the successful bidder. Cost towards excess consumption of chemicals beyong the guarantee is to be supplied by bidder at his own cost. In view of same, we request you to waive the penalty towards excess consumption of chemicals. . Kindly confirm	Tender Conditions Prevails

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72	Volume 1, Apendix 6, Page 136 & 137	Effluent quality, Chemicals and material for Operating and Maintaining of STP and related facilitates	We would like to seek confirmation regarding the applicability of penalties under the tender conditions. As per our understanding, the penalty for effluent quality and excess chemical consumption shall not be applicable in cases where the influent raw sewage characteristics received at the STP differ from those specified in the tender documents. Kindly confirm whether our interpretation is correct	The penalty for effluent quality and excess chemicals shall not be applicable if the Influent raw sewage characteristics goes beyond the Influent Wastewater Characteristics as specified in Part 5.
73	Volume 1, Apendix 6, Page 137	**Power Consumption:** Excess consumption of electrical energy for Operating and Maintaining of STP and related facilitates	We would like to seek confirmation regarding the applicability of penalties under the tender conditions. As per our understanding, the penalty for excess power consumption shall not be applicable in cases where the influent raw sewage characteristics received at the STP differ from those specified in the tender documents. Kindly confirm whether our interpretation is correct	The penalty for excess power consumption shall not be applicable if the Influent raw sewage characteristics goes beyond the Influent raw sewage Characteristics as specified in Part 5.
74	Volume 2 / Section 7, Schedule X, Page 1204	Functional Guarantees	Functional Guarantees: We would like to seek confirmation regarding the applicability of functional guarantees under the tender conditions. As per our understanding, the guarantees shall not be applicable in cases where the influent raw sewage characteristics received at the STP differ from those specified in the tender documents. Kindly confirm whether our interpretation is correct	The guarantees shall not be applicable if the Influent raw sewage characteristics goes beyond the Influent raw sewage Characteristics as specified in Part 5.
75	Volume 2/ Section 7, Part 5-41, Cl. 5.22.1, Page. No: 124	Fine Screens and Channels Screen type - Multirake type bar screen with mechanical cleaning and auto jam removal	We request you to allow Step Type fine screen for STP as it is allowed in other BWSSB 100 MLD STP projects. For e.g. 100 MLD STP at Dodabelle. Kindly Confirm	Not Acceptable. Tender Conditions Prevails
76	Volume 2/ Section 7, Part 8-141, Cl. 9, Page. No: 454	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Chemical Dosing Pumps**	We request you to add following make for Dosing Pumps - Shapotools	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
77	Volume 2/ Section 7, Part 8-141, Cl. 11, Page. No: 454	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Clarifiers and Thickeners**	We request you to add following make for Primary Clarifiers and Secondary Clarifiers - Shivpad, Jash Engg, Clear drop Engg	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
78	Volume 2/ Section 7, Part 8-141, Cl. 13, Page. No: 454	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Butterfly Valves**	We request you to add following make for Butterfly Valves - G.M Engg	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
79	Volume 2/ Section 7, Part 8-141, Cl. 14, Page. No: 454	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Sluice Gate Valves/ non return Valve**	We request you to add following make for Sluice Valves/ Non Return valve - G.M Engg	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
80	Volume 2/ Section 7, Part 8-141, Page. No: 454	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **MS Cement Line Pipes**	We request you to add following make for MS Cement line Pipes - Deep Seals, Jindal, Surya, Any ISI pipe Manufacturer	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
81	Volume 2/ Section 7, Part 8-142, Cl. 19, Page. No: 455	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **SS Pipes**	We request you to add following make for SS Pipes - Akash Steel Craft	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
82	Volume 2/ Section 7, Part 8-142, Cl. 20 & 21, Page. No: 455	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **CI/GI/DI pipes**	We request you to add following make for GI Pipes - Surya, Asian	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
83	Volume 2/ Section 7, Part 8-143, Cl. 23, Page. No: 456	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Fine bubbles Diffusers**	We request you to add following make for Fine Bubble Diffuser - Titan Aeration, EDI	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
84	Volume 2/ Section 7, Part 8-143, Page. No: 456	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Turbo Air Blowers**	We request you to add following make for Turbo Air Blower - Jash Invent	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
85	Volume 2/ Section 7, Part 8-144, Cl. 38, Page. No: 457	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Disc filter**	We request you to add following make for Disc filter - Yucheon.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved

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86	Volume 2/ Section 7, Part 8-139, Cl. 4, Page. No: 452	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Chlorination System**	We request you to add following make for **Chlorination System- Chlorotech**	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
87	Volume 2/ Section 7, Part 8-139, Cl. 4, Page. No: 452	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Cranes**	We request you to add following make for **Cranes- Transpade**	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
88	Volume 2/ Section 7, Part 8, Cl. 8.39, Page. No: 452 459	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Bio textiles**	We request you to add M/s. Cleratec for Biotextiles	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
89	Volume 2/ Section 7, Part 8, Cl. 8.39, Page. No: 452 459	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Strip type diffusers**	We request you to add M/s Ovivo / Ms. Jager for Strip type diffusers used in IFAS system	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
90	Volume 2/ Section 7, Part 5-37, Cl. 22.1, Page. No: 119	Influent Wastewater Characteristics BOD mg/L 350.00 COD mg/L 800.00 TSS mg/L 450.00 VSS mg/L 360.00 TKN mg/L 70	The concentrations of Inlet waste water parameters provided in the tender is very high, approximately the TSS Valve is 20% higher and BOD Value is to 40% higher as compared to values provided in CPHEEO Manual. Moreover the provided influent characterisitics are also high compared to that actually observed in various STPS of BWSSB in operation as on date. In view of same we request you to allow bidder to consider the Raw sewage Parameters as per CPHEEO Manual or provide revise the Inlet parameters. Kindly review and Confirm.	Tender Conditions Prevails
91	Volume 2/ Section 7, Part 5-36, Cl. 22.1, Page. No: 119	5.16 Design Sizing Criteria and other requirements 5.16.1 STP minimum requirements Standby Requirements/ Store standby Requirements and Spare Requirements.	We request you to consider general standby configuration of Pumps and Air Blowers as mentioned under. **No. of Working/duty units — Minimum Standby (%)** 1 — 100% 2 — 50% 3 — 33% >3 — 25% Furthermore, Spares Requirement and store standby provision shall be as bidders requirement to operate the plant during Operation and Maintainance. Spares requirement and store standby provision shall not be kept mandatory. Kindly confirm	Tender Conditions Prevails
92	Volume 2/ Section 7, Part 5-52, Cl. 22.1, Page. No: 134	Chlorination System Chlorinator Capacity Provided - 20.00 kg/h No of connected tonners to each chlorinator Nos - 5.00 No of tonners provided Nos - 15.00	We request you to restrict the nos. of store chlorine tonners to 5 nos maximum to avoid the requirement of chlorine license from the Explosive department. Moreover, the nos. of connected tonners are required as 2 Nos. as withdrawal rate per chlorintor is approximately 10 kg/hr maximum as per chlorine handbook Hence, Kindly revise the total chlorine Tonner requirement as 7 Nos. (2 Nos. working Installed + 5 nos. Store) instead of 20 nos provided in the NIT. Kindly confirm	Tender Conditions Prevails
93	Volume 2/ Section 7, Part 11-2, Page. No: 759	Lifting Requirement	We request you to allow the Monorail hoist (Electric) for the lifting purpose at TSPS, Process Air blower, Chlorine Shed and at other pumps houses in place of crane. This will optimize the height of the building. Kindly confirm.	Tender Conditions Prevails
94	Volume 2/ Section 7, Part 11-2, Page. No: 759	Lifting Requirement	We request you to allow the capacity of the Monorail hoist (Electric) for the lifting purpose as 1.5 times the weight of the heaviest component to be lifted. Kindly confirm.	Noted & Confirmed
95	Volume 2/ Section 7, Part 5-48, Cl. 5.22.1 Page. No: 130	Blower type - Centrifugal Turbo Blower with VFD Control	We request you to allow Tri lobe/Twin lobe roots Process Air Blowers for STP as it is allowed in other BWSSB 100 MLD STP projects. For e.g. 100 MLD STP at Dodabelle. Kindly Confirm	The blowers for Air Diffusers system shall be Turbo Blower/Tri Lobe type, Bidder shall ensure noise level as Per IS Code to be maintained, with necessary acoustic arrangement to be Provided by the bidder.
96	Volume 2/ Section 7, Part 5-11, Cl. 5.13 Page. No: 93	All channels carrying process liquid shall be fully covered with solid non-skid GRP/FRP cover access manholes (not grating) designed for human traffic live loads at a minimum and heavy vehicle live load wherever the channel crosses traffic paths.	We understand that covering of channels shall be done only where human/vehicular crossings is required. Balance channels shall be open. Kindly Confirm.	Confirmed

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97	Volume 2/ Section 7, Part 5-27 upto 5-35, Cl. 5.2 Page. No: 110	Regarding sampling/analysis locations and frequencies	Sampling / Analysis for various parameters at specified locations along with the frequency for measurement provided for O&M period is very exhaustive and is not required. Provision of Online real time monitoring of the parameters mandatory as per CPCB regulations are being monitored at the inlet and outlet of the plant is to be provided by bidder. Measurement of certain parameters being tested once or twice a week seems adequate. We request you to review the requirement of testing wiht respect to parameters, locations and frequency. Please review and confirm.	Confirmed, The frequency for effluent sample validation shall be once per month during the O&M period
98	Volume 2/ Section 7, Part 5-27 upto 5-35, Cl. 5.2 Page. No: 110	Operation & Maintenance requirements: sampling/analysis locations and frequencies	Kindly confirm that bidder to carry out analysis for only guaranteed effluent parameters during the O&M period for submission to BWSSB. However for design and performance check, bidder may carry out analysis of other parameters as required for his own reference. Kindly confirm	Confirmed, The bidder is required to carry out and report analysis for the guaranteed effluent parameters during O&M
99	Volume 2/ Section 7, Part 6-35, Cl. 5.22 Page. No: 118	The Contractor is required to validate its analysis on effluent samples once fortnightly from an approved laboratory (by Bureau of Indian Standards), which is not connected to the project.	We request frequency for validation of effluent samples be done once a month druing the O&M period from laboratory which is not connected to the project.	Accepted
100	Volume 1, Cl. 3.1.4, Page. No: 14	Personnel Capabilities The Tenderer shall supply general information on the management structure of the firm and shall make provision for suitably qualified personnel to fill the key positions listed below. Contractors Bengaluru Site Office Minimum Design staff assigned to the site office.	At present there is an acute shortage of highly skilled personnel hence we request you to consider the experience of Project Manager as 10 years and for rest all Personnel as 05 Years experience. Kindly Confirm.	Tender Conditions Prevails. Refer Volume 1.
101	Volume 2/ Section 7, Part 16-3 & 16-4, Cl. 16.1.1 Page. No: 1020	Minimum number of staff per designation and qualifications requirements during operation service period for STP/TSPS - Experience in years	There is an acute shortage for manpower in India specially in this sector. in view of same, we request to consider following qualification and experience for the operation and maintenance staff as under Designation / Expenence / Years Plant Manager / Graduate in any field of engineering with minimum 2 years of experience in WTP/STP/ETP operations / 5 years Plant operator cum shift in incharge / Diploma in any field of engineering / 3 years Plant chemist / BSc (Chemistry / Environment / Biotechnology) / 2 years Electrician / Diploma / ITI in electrical / 2 years Instrumentation & Control Technician / Diploma/ITI in Instrumentation & Control / 2 years Fitter / Mechanic / Diploma / ITI / 2 years	Tender Conditions Prevails. Refer Volume 1.
102	Volume 2/ Section 7, Part 5-27 & 5-28, Cl. 5.2, Page. No: 110-116	Refer sub-section of Volume 2, Section 7, and Part 5 for Sampling/Analysis Locations and Frequencies	The tests on completion are to be carried out over a period of time not exceeding six months two separate 30 days operational tests during which the sampling and analysis of the influent and effluent parameters is also to be carried out. Kindly confirm that these analysis shall be carried out in Site laboratory and samples on monthly basis may be sent to certified laboratory as approved by Engineer in charge. Kindly confirm	Confirmed
103	Volume 2/ Section 7, Part 5-56, Cl. 5.22.1, Page. No: 110-138	Primary source of fuel for hot water boiler is biogas and secondary source is heavy fuel as given in the tender. Further in Part 8, it is mentioned that Digester shall produce biogas for gas mixing and digester heating boiler and for power generation in future. Further, Biogas engine with heat recovery system is to be provided wherein the waste heat is to be used for heating the sludge in digester.	If the biogas engine and heat recovery system provided by bidder meets the digester heating requirement, then the provision of boiler system with its peripheral system is not mandatory. Kindly confirm	Noted. Tender condition prevails. During detailed engineering, bidder shall demonstrate the heat recovery & digestor heating requirements as per tender requirement

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104	Volume 2/ Section 7, Part 5 & 11, Cl. 5.22.1 and Table 11, Page. No: 128 & 759-771	Table given under section 5.22- Design sizing requirements and other criteria mentions digester sludge mixing. Further, In volume 2, Part 11, Table 11-1 equipment list specifies rotary vane blowers for digester sludge mixing and digester gas mixing lancers.	There is ambiguity in the requirements given in Part 5 and part 11 regarding system for Digester mixing . At one place indicates hydraulic mixing and at other place, rotary vane mixing system is mentioned. We request yout to clarify and confirm that bidder can provide hydraulic mixing using horizontal centrifugal end suction /screw type of pumps for digester mixing.	The bidder shall provide hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps, subject to meeting the required mixing intensity, circulation rate, and overall performance criteria specified in the tender
105	Volume 2/ Section 7, Part 11-9 & 8.93, Cl. 8.28, and Table 11, Page. No: 766 & 406	Inet H2S for scrubber: 1.5% and outlet H2S: 100 ppm , Vol2, Part 8-93, clause 8.28 specifies Maximum H2S content at inlet condition shall be 5000 to 10000 ppm.	As a standard practice, all gas engine manufacturer's requirement for permissible H2S content in biogas is 300 ppm. Further, the inlet H2S in the biogas from anaerobic digesters usually observed upto 2500 ppm. We requset you to allow bidder to design scrubber with inlet H2S of 2500 ppm and outlet H2S of 300ppm. Kindly confirm	Bidder to consider as per engine manufacturer recommendation
106	Volume 2/ Section 7, Part 11-9, Page. No: 766	Capacity of biogas scrubber : 800m3/hr	Capacity specified in tender for biogas scrubber is very high. Kindly permit the capacity selection for scrubber as per bidder's requirement and design as the equipment may not function if its overdesigned.	Shall be based on Detailed Engineering
107	Volume 2/ Section 7, Part 11-9, Page. No: 766	Biogas dryer	Kindly delete biogas dryer from the scope of work	Tender Conditions Prevails
108	Volume 2/ Section 7, Part 11-9, Page. No: 766	Gas holder(Biogas storage tanks)	Kindly confirm that bidder can provide RCC tank with floating dome or stand alone type double membrane type gas holder for biogas storage	Tender Conditions Prevails. Refer Part 5.
109	Volume 2/ Section 7, Part 11, Page. No: 766	Biogas Feed and Collecting Blowers	We have several installations of biogas based power plants which are satisfactorily in operation till date. Based on our experience, we recommend horizontal centrifugal / side channel type of blowers for Biogas Engine feed and biogas collection blowers. Kindly permit horizontal centrifugal / side channel type of blowers with preferred makes such as SWAM / EVEREST / MAPRO / TMVT/ GGE suitable for biogas application in addition to rotary vane type blowers. Kindly confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
110	Volume 2/ Section 7	General Mechanical Requirements: General Electro Mechanical Requirements	The specifications for each item provided under the general requirements for mechanical and Electrical equipment represent a combination of various makes. In many cases, a single manufacturer may not fully meet all specifications, which can lead to delays during detailed engineering and datasheet approvals due to this ambiguity. Since manufacturers often cannot customize extensively, we kindly request your confirmation that these specifications are intended for reference only, and that detailed specifications may vary according to the manufacturer's standard practices.	Noted. The specifications indicated with respect to the overall project requirements and performance required shall be reviewed during the detailed engineering stage and suitable decision shall be taken in the event of any ambiguity between specs and approved/alternate makes
111	Volume 2/ Section 7, Part 13-35 to 13-37, Cl. 12.24, Page. No: 852 & 854	Part 13, clause 13.26 Laboratory equipment and LIMS system	List of laboratory instruments provided in tenderis extensive and repetative. For eg- multi parameter meter for measurement of pH and conductivity is considered then separate pH meter is not required. Comparator test set/ Chloroscope and Spectrophotometer both are not required. Online turbidity measurement analyzers are provided on the field then one benchtop and one portable Turbidity meters are not required. Field test kit for cations and anions, depth sampler are not required. Online TOC measurment analyzer is provided in instrumentation then Online TOC for laboratory is not separately required. Most of these items are duplicated. Kindly confirm deletion of following laboratory items from the scope of supply i.e pH meter, benchtop turbidity meter, portable turbidity meter, field test kit for cation and anions, depth sampler, online TOC analyser and Spectrophotometer	The bidder shall consider the following to be deleted 1) Individual/benchtop, PH meter at lab 2) Portable Turbidity meter 3) Online TOC meter at lab, if the same is provided and installed as part of online multi parameter filed instrumentation.

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
112	Volume 1, Cl. 40, Page. No: 69	(c) The price adjustment shall be determined during each quarter from the formulae given in Contract Data.	Please define definition of Quarter. The tender document specifies that the Base Period and Current Period shall be determined based on the "Quarter," however, the term "Quarter" has not been defined in the document. In similar past projects, bidders have faced difficulties during the application of price adjustment due to varied interpretations of the term "Quarter." In some cases, the Employer has considered the quarter as July 2025 to September 2025 as previous quarter, while in other instances, periods such as September 2025 to November 2025 were treated as a previous quarter for calculating price adjustments. This lack of uniformity in defining the "Quarter" leads to ambiguity and potential disputes in the computation of price escalation/de-escalation amounts. We request you to kindly provide a clear definition of the term "Quarter" for the purpose of calculating price adjustments.	Bidder to consider as below Quarter preceding the date of opening of tenders. So in case the tender is opened in Dec'2025 the preceding quarter will "Sep25 - Nov'2025".
113	Volume 1, Appendix 3, Page. No: 129	Price Escalation	Please define definition of Quarter. The tender document specifies that the Base Period and Current Period shall be determined based on the "Quarter," however, the term "Quarter" has not been defined in the document. In similar past projects, bidders have faced difficulties during the application of price adjustment due to varied interpretations of the term "Quarter." In some cases, the Employer has considered the quarter as July 2025 to September 2025 as previous quarter, while in other instances, periods such as September 2025 to November 2025 were treated as a previous quarter for calculating price adjustments. This lack of uniformity in defining the "Quarter" leads to ambiguity and potential disputes in the computation of price escalation/de-escalation amounts. We request you to kindly provide a clear definition of the term "Quarter" for the purpose of calculating price adjustments.	Bidder to consider as below Quarter preceding the date of opening of tenders. So in case the tender is opened in Dec'2025 the preceding quarter will "Sep25 - Nov'2025".
114	Volume 1, Cl. 39, Page. No: 69	39.1 The rates quoted by the Contractor shall be deemed to be exclusive of all taxes (GST) that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.	As per this clause Bidders are instructed to bid exclusive of GST, whereas in other clause namely 11.3 under clause 11.1 Tender Price on page no 19 has specified to include GST in Bid Price. Kindly clarify whether Tenderer has to bid prices excluding GST or including GST.	In the E-procurement portal Bidder need to enter the Rates excluding GST.
115	Volume 1, Cl. 11 Page. No: 18	11.3 All taxes (GST) payable by the contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Tenderer.	As per this clauuse Bidders are instructed to bid inclusive of GST, whereas in clause 39. on page no 70 has specified to exclude GST in Bid Price. Kidnly clearify whther Tendere has to bid excluding GST or not.	It will be excluding GST.
116	Volume 1, Section 6, Page. No: 123	Start repayment of advance payment: Each instalment of the advance payments shall be repaid in 10 (Ten equal monthly instalments, starting from first RA bill each in the amount of 10% of the amount of the mobilization advance until such time as the advance payments shall have been fully repaid.	We request you to start repayment of advance in ten (10) equal monthly installments starting from 3rd RA bill, each in amount of 10% of the amount of the mobilization advance. Kindly confirm	Tender Conditions Prevails
117	Volume 1, Appendix-1, Page. No: 126, 127, 128	Terms and Procedures of Payment, page 126, 127, 128 A) terms of payment.		Tender Conditions Prevails
		Design and Documentation a) Detailed designs and construction documents	We suggest payment as under for Detailed desings and Construction documents :	As per tender condition. The same will be finalised post award as a part of Billing Breakup approval.
			50% against submission of design and drawings	
			40% against substantial completion , submission and approval by employer's representative of the desing, drawings and construction documents for all major items of work. **Code B approval: 40%**	
			10% against submission and approval by the employer's represntative of the final designs and construction documents for all remaining and miscellaneous construction details and working drawings. **Code A approval : 10%**	

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
		Supply and Delivery of Plant and Equipment for Incorporation in the Permanent Works	We suggest payment terms for Supply and Delivery of plant and equipment for incorporation in permanent works as under:	Tender Conditions Prevails. Refer Volume 1.
		• Supply and delivery to site of mechanical and electrical equipment, instrumentation, including pipes, valves, fittings and accessories.	80 % against supply at site	
			10 % against completion of installation	
			10% against completion of commissioning	
118	Volume 1, Cl. 37, Page. No: 68	37. Payments 37.1 Payments shall be adjusted for deductions for advance payments, other recoveries in terms of the contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The Contractor shall be liable to pay liquidated damages for shortfall in progress. For Progress beyond the agreed programme, payment is subject to availability of the grants.	(1) We request that employer shall pay the contractor within 21 days of submission of bill. (2) We also request that no deduction be made for liquidated damages for shortfall in progess during the contract period of capital works execution and liquidated damages may be deducted beyond agreed capital work completion date. (3) We also request you not to link the payment with the availability of grant. (4) In case of delay in payment beyond 21 days from the submission of bill, the employer shall pay interest at least as per the current RBI interest rate for the delay occured in release of the payment. Kindly confirm all above.	1) Tender condition prevails 2) damages, if any, will be applicable as per Contract Data Clause No 41 3) Payment will made based on the progress of the work as per tender condition. 4) Tender condition prevails.
119	Volume 1, Cl. 38, Page. No: 68	38. Compensation events	We request you to add following event in the list of compensation events (a) Delay in release of payment of montly RA bills / final bill payment and interest applicable	Tender Conditions Prevails
120		Date of Bid submission	We request you to please confirm date of bid submission minimum three weeks from the date of issue of reply of prebid queries	Tender Conditions Prevails
121	Volume 2/ Section 7, Part 5-14, Cl. 5-13, Page. No, 96	A dual mixing system (Hydraulic mixing + Biogas injection) shall be provided for the digester mixing system to promote a synergistic mixing effect compared to using a single mixing method alone.	We request you to allow bidder to choose either single hydraulic mixing or choose dual mixing as per his own design. Please confirm bidder can choose only hydraulic mixing for digester mixing system.	Tender Conditions Prevails. Can be reviewed during detailed engineering.
122	Volume 2/ Section 7, Part 5, Cl. 5-14, Page. No, 99 to 103	The hydraulic design	Kindly confirm that this is applicable to only for design of pipes, gates, valves and channels only and not application for process units	The clause applies to pipes, gates, valves, and channels, and process units(weirs) too.
123	Volume 2/ Section 7, Part 5, Cl. 5-12, Page. No, 87 to 90	For Liquids- holding structures, the drain piping and fittings shall be sized such that the entire structure can be drained by gravity in no more than eight (8) hrours. The Plant Drain Pumping Station, Plant drain pumps and other related equipment and controls shall be designed and sized to allow draining of the structure with the largest volume from full to empty within eight (8) hours.	With respect to drain provision clause, we request that Bidder be allowed to provide plant drain sump as per bidder's design to collect drain water from inlet pre treatment units and wash water from the dosing area. Morever, bidder to be allowed to drain Bioreactor (Aeration tank) / Secondary biological units to adjacent tank as per process requirements using suitable capacity store standby portable pumps. All sludge units including clarifier sludge may be drained through relevant pumps and finally sent to mechanical dewatering unit. Further the chlorine contact tank can be drained to final discharge point. Kindly confirm	The Proposed arrangement is also acceptable
124	Volume 2/ Section 7, Part 5, Cl. 5-12, Page. No, 87	Prior to finalizing the plant layout for approval, the contractor is required to present a comprehensive 3D model walkthrough video showcasing the entire plant layout and its facilities to the Engineer	we request you to delete this from the scope of work.	Tender Conditions Prevails
125	Volume 2/ Section 7, Technical Schedule X-1, Page. No, 1024	2.4. Captive Power Generation during Operation and Maintenance	It is difficult for the bidder to provide guarantee for the sludge received from other STP being operated by other contractor. in view of same we request you to remove the penalty on the Capitive power generation as well as the Guaranteed not-to-reduced captive power generation under actual operating conditions for complete works as well as the formula below: CPGA = [{CPGD}*{(0.4*QA/QD)+(0.35*SA1/SD1)+ (0.25*SA2/SD2)}] Kindly confirm	Tender Conditions Prevails
126	Volume 2/ Section 7, Technical Schedule X-4, Page. No, 1027	**2.5. Penalty Formula for Captive Power Generation**	We request to remove this clause .	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.

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127	Volume 2/ Section 7, Part 13-35, 13-36, 13-37, Cl. 13.24, Page. No, 852-854	Laboratory equipment and LIMS system	We request you to review the specifications and provide relaxation in the specification	Tender Conditions Prevails The bidder shall consider the following to be deleted 1) Individual/benchtop, PH meter at lab 2) Portable Turbidity meter 3) Online TOC meter at lab, if the same is provided and installed as part of online multi parameter filed instrumentation.
128	Volume 2/ Section 7, Part 5 & 11.	Submersible mixers for anoxic / anaerobic / aeration / sludge sumps	The mixing power provided in the NIT is very high. We request that bidder be allowed to choose the mixer rating as per manufacturer design and CPHEEO manual to ensure proper mixing. Kindly confirm	Noted and confirmed shall comply to the performance requirement as specified in the tender.
129	Volume 2/ Section 7, Part 5-507, Cl. 5.22.1, Page. No. 132	Disk filter - Complete disk filter facility shall be provided in under a concrete roof to filter treated effluent from FST	As the disc filter is provided with cover, separate building is not required. Please confirm	Bidder to consider separate building / Steel Roof.
130	Vol 2/ section 7, Part 1-7, cl. 1.8, pg. 12	The plant components shall be designed and constructed to provide the minimum service life listed below for each component	The clause specifies "minimum service life of mechanical items shall be 20 years" Would request you to kindly confirm that the time provided.	Tender conditions prevail
131	Vol 2/ section 7, Part 5-40, cl. 5.22.1, pg. 122	Pumping Station (wet well), wet well plan	The clause specifies "TSPS wet well plan area and its shape shall be selected such that it shall accommodate the future/present installation of pumps" Kindly confirm number of pumps and capacity to be installed in future for our better understanding	Tender conditions prevail
132	Vol 2/ section 7, Part 5-41. cl. 5.22.1, pg. 123	Dewatering pumps at wet well	2 nos. Working & 2 nos. standby dewatering pumps of capacity 75 m3/hr, kindly confirm are they installed or store standby	Tender conditions prevail
133	Vol 2/ section 7, Part 5-53, cl. 5.22.1, pg. 135	Additional sludge from other STP sites	Kindly provide the characteristics of addition sludge from other STP sites, like process from which sludge are generated, is it combined sludge from primary and secondary treatment, VSS, TSS etc. for further process in thickener followed by digester.	Tender conditions prevail
134	Vol 2/ section 7, Part 5-56, cl.5.22.1, pg. 138	Digester-Gas mixing	There are two types of Gas mixing blowers as well as Gas mixing lances. Kindly confirm the provision of two type of gas mixing system mandatory	Tender conditions prevail
135	Vol 2/ section 7, Part 5-56, cl.5.22.1, pg. 138	Digester-heating system	Kindly confirm the provision of hot water boiler for heat exchanger	Noted. Tender condition prevails. During detailed engineering, bidder shall demonstrate the heat recovery & digestor heating requirements as per tender requirement
136	Vol 2/ section 7, Part 5-59, cl.5.22.1, pg. 141	Decanter centrifuge	The clause specifies "2 Nos. of working centrifuge of capacity 25 m3/hr and operating 16 hours" Would request you to kindly confirm that the capacity & nos. of centrifuge considering the additional sludge from other STPs as well as primary and secondary sludge from proposed 50 MLD STP	Tender conditions prevail
137	Vol 2/ section 7, Part 5-60, cl.5.22.1, pg. 142	Outlet sludge consistency from centrifuge-25%	25% consistency will not be achieved from centrifuge Request you to kindly confirm that the sludge consistency from centrifuge outlet	Minimum Solid Concentration in Dewatered Sludge shall be 22%
138	Vol 2/ section 7, Part 12-4 cl.12.3, pg. 775	Requirement for power consumption / captive power generation	The clause specifies "The guaranteed value shall be hall not fall below the 10% of the revenue benchmark for captive power generation of 5,22,000 kWh/month as stipulated by the employer for 50 MLD STP at Kadubesenahalli". Power generation is varies as per variation quality of raw sewage. Please confirm the variation in power generation	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
139	Vol 2/ section 7, Part 10B cl.1.14, pg. 730	Design criteria for underground or partly underground liquid retaining structures	The clause specifies iii) if water table exists, earth pressure to be considered for submerged soil conditions with ground water table at FGL. Vi) structures shall be designed for uplift in empty conditions with the water table to be considered at Finished Ground Level (FGL) What GWT should be considered for design if actual GWT is less as per soil report? Still it is to be considered at FGL?	Tender conditions prevail
140	Vol 2/ section 7, Part 5-22, cl.5.22.1, pg. 134	No of connected tonners to each chlorinator	The number of connected tonners to each chlorinator shall be considering max. 1% withdrawal rate. Please confirm	Tender conditions prevail
141	Vol 2/ section 7, Part 5-58, cl.5.22.1, pg. 140	Power generation	As per tender 1500kW capacity biogas engine to be installed. Can we consider to provide multiple engines totalling to 1500kW (e.g. 750kWx2 Nos. Working) for optimum use of engine/bio-gas. Pls confirm	Noted. During detailed engineering, based on the equipment of similar capacity available in the market based on OEM Design ,appropriate decision shall be taken.
142	Vol 2/ section 7, Part 8-185, cl.8.54.4, pg. 498	Quality requirements	Pls clarify whether removal efficiency for odour control system shall be 99% or 99.9% as per given outlet H2S concentration requirement.	Tender conditions prevail
143	Vol 2/ section 7, Part 12-4, Cl.12.3, pg. 775	Requirement for power consumption / captive power generation	As in certain months especially during monsoon months the bio-gas generation is affected to a large extent leading to lower captive power generation. Hence we understand that bio-gas based on monthly average of total power generation for a calendar year and dame shall be considered for penalty purpose. Please confirm	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.
144	Vol 2/ section 7, Part 12-4, Cl.12.3, pg. 775	Requirement for power consumption / captive power generation	We understand that guaranteed daily power consumption limit of 26,650 kWh/day is net grid permitted to be drawn from grid. Please confirm	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.
145	Vol 2/ section 7, Part 5-46, cl. 5.22, pg. 118	If the process cycle includes a fill-mix phase or only mixing phase without aeration, then submersible type mixers shall be provided in each SBR basins. Submersible type mixers shall be provided in each SBR basins for SBR design without pre-zone or selector zone. Minimum unit power input for mechanical submersible mixing shall be 8 to 10 W/m3	We understand that requirement of Mixers in the selector zone is not mandatory. The bidder is allowed to provide fine bubble diffusers in the selector zone & mixer if required as per the design requirement of the SBR technology provider. If the process cycle includes a fill-mix phase or only mixing phase without aeration, then submersible type mixers (If required as per design of SBR technology provider) shall be provided in each SBR basins. Submersible type mixers shall be provided in each SBR basins for SBR design without prezone or selector zone. Minimum unit power input for mechanical submersible mixing shall be 8 to 10 W/m3	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
146	Vol 2/ section 7, Part 5-22, cl.5.22.1, pg. 134	No of connected tonners to each chlorinator	The number of connected tonners to each chlorinator shall be considering max. 1% withdrawal rate. Please confirm	Tender conditions prevail
147	Vol 2/ Sec 7, Part 5-3, Cl. 5.1, Page 85	SLD	In the given SLD, there is no incoming feeder for Gas Engine. Can you clarify	Can be decided during detail engineering. The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars. Tender conditions prevail..
148	Vol 2/ Sec 7, Part 12.2, Cl. 12.3, Page 773	12.3 Power Supply Arrangement In kadubeesanahal[i, at the proposed STP plant location there is no existing incomer power arrangement and hence incoming power supply shall be taken new from the nearest BESCOM substation.	Please provide distance from the nearest Bescom metering to 50 MLD STP 11 KV Outdoor ICOG VCB Panel, to consider Qty of Cables.	The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars as per his independent site visit. Tender conditions prevail.
149	Vol 2/ Sec 7, Part 12.3, Cl. 12.3,	The outgoings of the 1 1kV Indoor panel for plant distribution shall feed a) 2 Nos. of 11/0.433kV Distribution Transformers for STP/TSPS plant loads b) 2 Nos of 11/0.433kV Distribetion Transformers for Proacss Air Blowers loads	It is currently specified to provide separate transformers for the STP/TSPS and the blower loads. Besed on our experience and standard practice, we request you to kindly consider single adequately rated transformer to serve both the process (STP/TSPS) and blower loads	Tender Conditions prevails

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150	Vol 2/ Sec 7, Part 12.3, Cl. 12.3,	Liaisoning with BESCOM for getting construction power supply, making new power supply agreement for the plant, and getting final clearance from CEIG for complete Electrical system will be included under STP Content scope	We understand that all payments and works related to the VCB up to BESCOM metering poini, including metering arrangements, approvals, and associated charges payable to BESCOM, shall be under BWSSB's scope. Accordingly, only liaisoning with BESCOM and the power cable frem the BESCOM metering point to the STP main panel shall fall under the Contractor's scope of supply and Installation. Kindly confirm our understanding on the above.	Tender Conditions prevails
151	Vol 3 - Drawings	Electrical Single line diagram	In SLD there is no provision shown for Gas Engine in the PCC 01 or in PCC 02. Since as per data sheet there is only one Gas Engine of 1500 KW to be provided, kindly confirm whether Gas provision to be given to PCC 01 load or PCC 02 Load. We understand Gas Engine with 415 V and with unity power factor Kindly confirm.	Can be decided during detail engineering. The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars. Tender conditions prevail..
152	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 120	Cable entry to electrical panels is given as the top entry	Kindly accept the bottom entry also for easy maintenance, Nowadays, the bottom entry to the panel is easy to operate	Tender Conditions prevails
153	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of RAS pumps standhy given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions prevails
154	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of WAS pumps standby given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions prevails
155	Vol 2/ Sec 7, Part 5-45, Cl. 5.22.1, Page 127	1. Membrane material EPDM or silicone elastomer ,with UV Protection 2. 'H' type retrievable diffuser arrangement (Maximum 8 diffusers only of each less than equal to 1 m in length)	Kindly allow LDPE membrane-type fine bubble diffusers. Which are more efficient and durable, and long-lasting more than 12 years Kindly allow a 2m length diffuser arrangement	Tender Conditions prevails
156	Volume 2/ Section 7, Part 5-59, cl. 5.22.1, Page. No: 141	Decanter Centrifuge system	Kindly allow Screw press/Belt Filter press for sludge deatering system which is energy efficient. Make: Euroteck	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
157	Volume -2 / Section-7, Part 8-59, Cl. 8.18	8.18 Fine Bubble tubular Membrane Diffusers 8.18.1 Tubular Type Diffusers .....maximum outer diameter (OD) shall not be more than 90 mm.	Kindly request to accept the outer diameter (OD) as per design of Diffuser Manufacturers as specified tn the tender document. As the oater diameter (OD) of diffuser varies frcm Manufacturer to Manufacturer with a guarantee for the performance. Kindly Confirm.	Tender Conditions prevails
158	Volume -2 / Section-7, Part 7-59, Cl. 7.13.4, Page 311.	The SCADA software shall be of minimum twenty five thousand tags version.	Based on the scope of work and process requirrments for the SBR technology, a SCÅDA system with 8,000 tags would be adequate to efficiently monitor and control all essential parameters end operations. Kindly confirm if the 8,000 to 10,000 tag SCADA configuration is acceptable for this application.	Tender Conditions prevails. Can be reviewed during detail engineering
159	Volume -2 / Section-7, Part 7-59, Cl. 7.13.4, Page 311.	The Historian software shall be designed and configured on a minimum to accept the number tags si milar to the SCADA softare (i.e twenty five thousand tags)	Kindly confirm if the Historian software with number of tags adequate for the actual process requirements can he accepted for this application, instead of the specified 25,000 tags, since the SBR technology requires significantly fewer tags (approximately 1,500).	Tender Conditions prevails. Can be reviewed during detail engineering
160	Volume -2 / Section-7, Part 7-59, Cl. 7.13.4, Page 311.	Historian Software	Alarms and trends are stored in the computer-based SCADÄ system with built-in SQL Server capability; therefote, a separate system for data storage is not required. We request you to consider the PLC and SCADA system without a separate Historian.	Tender Conditions prevails
161	Volume -2 / Section-7, Part 8-124, Cl. 8.35, Page 437.	Disc Assembly — Gaskets will be provided to seal all gaps to prevent leakage. Gaskets shall also be provided between the cassettes to prevent the water from leaking out.	The provided specifications pertain to a specific vendor. Currently, ail FDF vendors have upgraded their designs and now offer FDFs without additional sealing material, as the filter cloth itself serves as the sealing medium. The filter cloth is designed to envelope part of the filter frame and is securtd using multipte springs. Kindly confirm.	Tender Conditions prevails

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
162	Volume -2 / Section-7, Part 8-124, Cl. 8.35, Page 437.	Backwash Cleaning System: Each Disc will be prcvided with a dedicated set of backwash spray nozzle in ceramic /engineered Plastic. Filtrate will be used as the backwashing medium. Self- cleaning nozzles should be used for continuous operation. Alternatively a 200 micron filter should be used to filter the water going to the spray nozzles to avoid nozzle clogging.	The provided specifications appear to be specific to a particular vendor. Therefore, we presume that the backwash system shall be accepted as per the manufacturer's design standards. Kindly confirm.	Tender Conditions prevails
163	Volume -2 / Section-7, Part 8-124, Cl. 8.35, Page 437.	Chemical cleaning: A portable chemical cleaning trolley shall be provided for chemical cleaning the Filier panels. The Chemical clearing will be operated from the control panel by hooking up the chemical feed pump discharge to the chemical header provided on the filler.	Since the Disc Filter operates continuously, there is no downtime available for a chemical cleamng system. Therefore, we presume that a chemical cleaning system is not required. Kindly confirm	Tender Conditions prevails
164	Volume -2 / Section-7, Part 5-46, Cl. 5.22, Page 128.	If the process cycle includes a fill-mix phase or only mixing phase without aeration, then submersible type mixers shall be provided in each SBR basins. Submersible type mixers shall be provided in each SBR basins for SBR design without pre-zone or selector zone. Minimum unit power input for mechanical submersible mixing shall be 8 to 10 W/m3	We understand that requirement of Mixers in the selector zone is not mandatory. The bidder is allowed to provide fine bubble diffusers in the selector zone & mixer if required as per the design requirement of the SBR technology provider.	Noted. Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
165	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 120	Cable entry to electrical panels is given as the top entry	Kindly accept the bottom entry also for easy maintenance. Nowadays, the bottom entry to the panel is easy to operate	Tender Conditions prevails
166	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of RAS pumps standby given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions prevails
167	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of WAS pumps standby given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions prevails
168	Vol 2/ Sec 7, Part 5-57, Cl. 5.22.1, Page 139	"Type of Biogas Holder: RCC tank with fully epoxy coating installed with floating steel gas holder cover."	Request to permit use of double membrane biogas holder as an alternative to the floating steel cover type. The double membrane system offers improved corrosion resistance, lower maintenance, better gas-tightness, faster installation, and enhanced safety due to inherent pressure control and flexibility. It also eliminates structural corrosion issues associated with steel floating covers, resulting in higher operational reliability and lower lifecycle cost. Please confirm that double membrane biogas holder is acceptable.	Tender Conditions prevails. Refer Part 5.
169	Vol 2/ Sec 7, Part 5-25, Cl. 5.17.6, Page 107	"Contractor shall provide the facilities for tanker filling by installing dedicated 'treated water transfer pumps' in the treated water storage tank. For direct filling of these tankers, rising main of the treated water transfer pumps shall be terminated outside the boundary at suitable height and location as directed by Engineer. Further, at the tanker filling station, a dedicated ultrafiltration unit with disinfection facilities shall be installed (Capacity shall be same as treated water transfer pumps) to ensure the treated water meets all the time stringent re-use standards and non-detectable fecal coliform levels before being loaded into the tankers. For capacity of treated water transfer pumps refer Paragraph 5.22 and Part 11."	1. As per Part 11, two working treated water transfer pumps of 100 m^3/h each are provided. We understand these pumps will also be utilized for filling the tankers. Please confirm. 2. Kindly specify the number of tankers required to be filled simultaneously and the expected filling rate per tanker to size the filling arrangement appropriately. 3. Contractor's scope shall be limited to providing the treated water discharge pipeline up to the STP boundary, and the actual tanker filling station (manifold, metering, hose connection, etc.) shall be constructed by others/third party. Please confirm. 4. Since treated sewage already passes through disc filters, the water quality will be sufficiently improved before disinfection. Hence, ultrafiltration may be redundant; provision of disinfection alone should be acceptable to meet tanker filling water requirement. Request to consider removal of the UF requirement. Please confirm	Tender Conditions prevails
170	Vol 2/ Sec 7, Part 5 & 8, Cl. 5.22.1 & 8.18, Page 130, 374	'H' type retrievable diffuser arrangement (Maximum 8 diffusers only of each less than or equal to 1m in length) (x) The fixed diffuser Arrangement system should provide equal distribution in the aeration basin and there should be any dead zones in the basin. Diffusers should be installed in equidistance and shall be anchored & grouted with SS 316 fasteners and SS 316 clamping arrangement.	Bidders propose to select fixed vs retrievable based on O&M and accessibility. Please confirm acceptance.	Tender Conditions prevails

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
171	Vol 2/ Sec 7, Part 5-17, Cl. 5.13, Page 99	"Minimum efficiency of centrifugal turbo blower shall be 90%."	The requirement of 90% blower efficiency is unrealistically high. Actual achievable efficiency varies with blower model, manufacturer, flow range, and site ambient conditions. Typically, high-speed centrifugal turbo blowers achieve 82–86% efficiency at design flow. Request to revise this requirement and allow blower efficiency to be as per OEM design data / model-specific performance curve, with evaluation at rated design operating point and tolerance of ±2%. Please confirm acceptance of this modification.	Tender Conditions prevails
172	Vol 2/ Sec 7, Part 1-7, Cl. 1.8, Page 12	"All mechanical equipment supplied under the Contract shall have a minimum design life of 20 (twenty) years."	The specified minimum design life of 20 years for mechanical equipment is unusually high for rotating and mechanical plant items (centrifugal pumps, blowers, motors, gearboxes, valves, etc.). Standard industry practice and OEM guarantees commonly assume 15 years design/service life for mechanical equipment (with appropriate preventive maintenance and spare parts provisioning). Request BWSSB to reconsider Clause 1.8 and either: (a) reduce the minimum mechanical equipment design life requirement to 15 years (with O&M spares / maintenance plan during 7-year O&M)	Tender Conditions prevails
173	Vol 2/ Sec 7 - Technical Schedule X, Page 1204	"Energy consumption and captive generation shall be determined as per formulae given herein."	Please provide a worked example calculation with base assumptions (design flow, operating hours, biogas CH_4 %, CHP/generator efficiency, parasitic loads) so all bidders use a uniform interpretation.	Tender Conditions prevails
174	Vol 2/ Sec 7, Part 11-3, Page 760	Grit Transfer Pumps- Vertical non-clog slurry Pump	We request you to allow the Horizontal non clog submersible pump also. Please confirm.	Tender Conditions prevails
175	Vol 2/ Sec 7, Part 5-50, 11-6, Page 132 & 763	Back was pump qty ambiguity	In part-5 backwash pump is mentioned as 3 nos and 0 standby. However in part 11, 1 store stand by is asked. Please confirm exact requirement.	Bidder to Refer Part-11.
176	Vol 2/ Sec 7, Part 13-51, Cl. 13.26, Page 868	On a minimum the following parameters shall be measured at the plant inlet and outlet: COD, BOD, pH, TSS, TOC, Ammoniacal-Nitrogen, Total Nitrogen, Dissolved Oxygen, Color & Temperature measurement at the inlet and outlet of the each STP	In the treated sewage, process guarantees are linked only to BOD, TSS, TN, TP, and pH. Installation of additional analyzers such as COD, TOC, color, and DO at both inlet and outlet will not influence performance monitoring and will add unnecessary cost and maintenance. We request BWSSB to restrict the requirement of online analyzers at inlet and outlet only to the guaranteed parameters mentioned above. Please confirm.	Tender Conditions prevails
177	Vol 2/ Sec 7, Part 11-5, Page 762	For Blower EOT crane	We request to allow the use of an Electric Hoist (EOH) system, instead of a full Electric Overhead Traveling (EOT) crane for the blower area, as an EOH system is typically sufficient for the routine maintenance and smooth operation of the blower/motor assembly. Please confirm.	Tender Conditions prevails
178	Vol 2/ Sec 7, Part 11-10, Page 767	Dewatered sludge conveyor -Shaft Type Helical Screw	As per tender, the Screw conveyor has been asked for centrifuge building. Since the centrifuge machines are located on the first floor of centrifuge building and sludge cake will directly fall in the Trolley standing at ground of building therefore provision of conveyor can be deleted. However, if conveyor is to be provided, we recommend to provide belt conveyor. Please accept the same.	Tender Conditions prevails
179	Vol 2/ Sec 7, Part 5-15, Cl. 5.13, Page 97	H' type retrievable diffuser arrangement (maximum 8 diffusers only of each less than or equal to 1m in length) with Fully EOT crane (LT, CT, Lift) (3 drives) with rail arrangement for each basin for lifting and lowering the diffusers during maintenance shall be provided.	As per tender lifting arrangement shall be of EOT crane with rail arrangement for lifting and lowering for diffuser during maintenance. Since lifting out of diffuser is not regular activity, we request you review of requirement of EOT and allow other suitable arrangement like winch arrangement for lifting and lowering of retrievable diffuser. Kindly Confirm.	Tender Conditions prevails
180	Vol 2/ Sec 7, Part 5-24, Cl. 5.17.3, Page 106	"The contractor shall provide a plant drain sump with pumping station as indicated in Part 5, Part 11, and Volume 3 – Drawings, to collect drain from various process units within the STP... The collected flows from plant drain pumping station shall be pumped back to the downstream of fine screen effluent channels of the STP for subsequent treatment."	Plant drainage such as backwash water, thickener overflow, and wash-down water can be conveyed by gravity to the Main Pumping Station (MPS) for subsequent treatment. Provision of a separate Plant Drain Sump and Pumping Station will lead to additional power and maintenance requirements. Request to permit gravity conveyance to MPS wherever feasible and waive the mandatory requirement of a dedicated plant drain pumping station. Please confirm.	Tender Conditions Prevails. The proposed arrangement may be discussed during detail engineering

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
181	Vol 2/ Sec 7, Part 5-14, Page 96	"A dual mixing system (Hydraulic mixing + Biogas injection) shall be provided for the digester mixing system to promote a synergistic mixing effect compared to using a single mixing method alone. The hydraulic mixing (with recirculation pumps) ensures consistent agitation and homogeneity throughout the digester, while the biogas injection (with blowers and lances) enhances the overall mixing system by improving the circulation of the biogas, which in turn facilitates more effective contact between microorganisms and the organic matter."	The tender currently specifies a dual mixing arrangement using recirculation pumps plus biogas lances. Please confirm that other proven dual mixing systems that employ combined sludge (pump/recirculation) mixing and gas mixing (for example, Landia-type systems) will be accepted as equivalent alternatives. Please confirm acceptance of such equivalent pump + gas-mixing dual systems.	Tender Conditions prevails
182	Vol 2, Clause 5.22 TSPS & STP Design/Sizing criteria and minimum requirements / Part 5-48	Minimum Thickness of Acoustic Hood-100.00 mm	There is an error in the thickness of Acoustic hood. Request to check and update the value. Also please provide the MOC to be considered for the acoustic hood.	Tender Conditions prevails
183	Vol 2/ Sec 7, Part 5-14, Cl. 5.22, Page 104	The clear height from the invert level of the thimble-mounted sluice gate to the top of its operating platform shall be at least 2.5 times the full range of the gate opening.	The clear height from the invert level of the thimble-mounted sluice gate to the top of its operating platform shall be as per the gate positioning, CL-PL distance and as per vendor. Please accept the same.	Tender Conditions prevails
184	Vol 2 Part 5- Clause 5.13 (Design Requirements) / Part 5-17	"Minimum efficiency of Submersible Pumps for other locations shall be 60%."	The specified efficiency of 60% for submersible pumps appears to be on the higher side compared to standard industry values. The efficiency depends on pump capacity and head as well. It may not be possible to achieve 60 % for all pumps. Hence, we request to provide a relaxed criterion for this efficiency requirement.	Tender Conditions prevails
185	Vol 2/ Sec 7, Part 5-14, Page 103 & 320	*Maximum pipe flow velocity shall be not more than 1.0 m/s for all gravity flow and pump suction lines unless specified otherwise. *Maximum pipe flow velocity shall be not more than 1.5 m/s for all pumped discharge lines unless specified otherwise. & The maximum velocity in the pumping main shall not exceed 2 m/sec.	As per the tender conditions, Part-5 specifies a maximum velocity of 1.8 m/s for the pump discharge line, whereas Part-8 mentions a maximum velocity of 2.0 m/s. Kindly confirm the maximum velocity to be considered for the design of the pumping main / Pump discharge	The technical requirements provided shall be followed as written in Part 5 followed by Part 8
186	Vol 2/ Sec 7, Page 1209	Flow isolation- Through isolation gates at U/S. Trash screens and coarse screen are provided in series in a single channel followed by D/S Isolation gate	Kindly confirm the sluice gate considered in TSPS is manual or motorized type.	Tender Conditions prevails
187	Vol 2/ Sec 7, Part 10B-19, Cl. 1.22, Page 812	All Hand railings shall be made up of Stainless Steel 304 confirming to ASTM A-240M. Height of railing not less than 1200 mm. Stainless steel handrails of 10S pipe for ramps, staircases, walkway, chambers and Channels etc. are made out of stainless steel hollow pipes	We propose all hand railing except admin building shall be provided with aluminium alloy 6082 T6 grade of 40NB dia pipe (48.26mm OD).	Tender Conditions prevails
188	Vol 2/ Sec 7, Technical Schedule XI	Centralised On Grid type Solar Power Generation System	As per Part 12, Particular Electrical Requirements, Centralized Ongrid type Solar Power Generation System is required. Accordingly, Since the Bidder is intended to generate Power through Renewable Sources like Roof Top Solar PV Panels within the Plant, We understand that the Energy Generated from Solar PV Panels can be considered in deriving Net Guaranteed Energy Consumption. Please confirm	Bidder to note that Ongrid/Grid Connected Roof Top Solar PV system is not required
189	Vol 2/ Sec 7, General/	Voltage Selection	As per IS 12615 -2018, the Maximum Motor Rating permitted under 415 V Voltage is 1000 kW. Accordingly, we understand that the Maximum motor rating under 415V shall be 1000 kW as per Latest IS -12615 -2018 (Line Operated Three Phase AC. Motors (IE CODE) "Efficiency Classes and Performance Specification")	Bidder to note that IS 12615-2018 is for motors designed for terminal voltages upto and including 1000 Volts. Considering the challenges of handling very full load high currents, voltage drops in cable & system, starting currents etc. for higher kW ratings at 415V, bidder is suggested to follow the guidelines mentioned in CPHEEO STP manual Part A, Chapter-5, cl. no. 5.12.3.5 - Voltage Ratings
190	Vol 2/ Sec 7, Part 12	Heavy duty galvanized iron cable tray and ladder racking shall be used for cable support systems. These shall be used to route cables along walls, below beams and within cable trenches. Cables shall be securely fixed to the support systems.	We understand that for all Indoor Installations, Cables shall be laid through Cable trays in RCC Cable Trenches. For Outdoor Cable Installations, Cables shall be laid in Buried Condition as per Tender Specification. Please confirm.	Tender Conditions Prevails. Bidder to refer "Vol 2, Part 12, cl.12.4.19 (f) - Cable Installations" for details of cable installation inside and outside the plant area.
191	Vol 2/ Sec 7, Part 7, Clause 7.13.1 Page 309	No separate PLC system for monitoring and control of process system or complete plant control from process system vendor shall be accepted. Contractor shall note the importance of this clause.	The bidder understands that certain process equipments shall require PLCs and thus, these PLCs shall be provide the respective vendor along with the process equipment. Therefore, such vendor package PLCs shall be acceptable. Kindly confirm the bidder's understanding.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved

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192	Vol 2/ Sec 7, Part 7, Clause 7.13.1 Page 309	The PLC system shall consist of field remote input/output modules (RIO) panels. Each RIO panel shall consist of redundant communication modules, power supply modules, minimum 16" color panel mounted HMI with touch screen functionality	The bidder understands that if the HMI sizes mentioned are not available with the automation system vendor, a nearest available size shall be provided. Kindly confirm the bidder's understanding.	Tender Conditions prevails
193	Vol 2/ Sec 7, Part 13, Clause 13.2 Page 825	A general arrangement of a typical control system is shown in the Drawings.	The typical control system GA drawing is not available in Vol. 3. The bidder requests the employer to kindly provide the same.	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
194	Vol 2/ Sec 7, Part 13, Clause 13.2 Page 825	Interface to the BWSSB Central SCADA Stations at MIS-2 @ Shimsha Bhavan and CP-24 Centralized SCADA center.	The bidder understands that provision to transfer the proposed STP & TSPS data to the master SCADA of the client is under the scope of this tender. However, any further software and hardware required for the same at the master SCADA/ Client office shall not be covered under the scope of work of this tender. Kindly confirm bidder's understanding.	Tender Conditions prevails
195	Vol 2/ Sec 7, Part 13, Clause 13.6 Page 830	All analytical instruments shall be single channel and have individual analyser units.	The bidder requests the employer to kindly accept the usage of multi-channel transmitters for analyzer units. From our project experience, it is seen that multi-channel transmitters are compact in nature, avoid repetitive cabling and improves ease of installation and handling.	Tender Conditions prevails
196	Vol 2/ Sec 7, Part 5, Clause 5.22 Page 146	Electromagnetic flowmeters are envisaged in piped bypass lines.	The bidder understands that for the bypass lines may not be pumped and does not ensure full bore. Therefore, we request the employer to kindly accept the usage of ultrasonic Clamp-On type flowmeters for bypass lines.	All bypass flows shall be measured with ultrasonic flow measurement
197	Vol 2/ Sec 7, Part 5, Clause 5.22 Page 146	Parshall Flumes are envisaged for Flow measurement in Channels.	In addition to Parshall Flumes, the bidder requests the employer to kindly accept the usage of ultrasonic level based head over weir flowmeters for flow measurement in Channels.	Tender Conditions prevails
198	Vol 2/ Sec 7, Part 5, Clause 5.22 Page 146	Thermal Mass Flowmeter is envisaged in biogas lines.	The bidder understands that due to moisture content in the biogas, thermal mass flowmeters may not efficiently work in biogas lines. Therefore, the bidder requests to kindly accept the usage of ultrasonic in-line flowmeters for the same.	Tender Conditions prevails
199	Vol 2/ Sec 7, Part 5, Clause 5.2 Page 110	Requirement of each online analyzer is mentioned.	The bidder understands that the requirement in clause 5.20 is generic in nature and thus, the selection and requirement of online analyzers shall be as per the bidder's process design and consideration. Kindly confirm the bidder's understanding.	Tender Conditions prevails
200	Vol. 2 / Sec 7, General Query	Odour Levels at Outlet of Odour Control Units (Daily maximum): 100 ppb. Odour Levels at Plant Boundary (Daily maximum): 10 ppb.	IT SHOULD BE 0.001 AT THE BOUNDARY. ODOUR LEVEL AT THE STACK SHOULD BE 10 PPB	Tender Conditions prevails
201	Vol. 2 / Sec 7, General Query	General Query	Kindly confirm whether the bidder may propose an alternate make of equivalent, even if an approved make is already specified, subject to submission of technical compliance documents and obtaining Employer Engineer s approval during detailed engineering.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved.
202	Vol. 2 / Sec 7, Part 12, Page no. 773	BESCOM shall making necessary modifications in their substation by adding extra 11kV switchgear Breaker, laying 11kV overhead line underground cable up to the RMUSpun Pole in new STP TSPS location. Necessary RMUSpun Pole, CTs, PTs, interconnecting cable from RMUSpun Pole to metering unit, metering unit shall be provided by BESCOM.	As per the specification, the Contractor s scope for the STP & TSPS starts from the outgoing of the corresponding 11kV VCB provided by BESCOM near the metering unitRMU. Kindly confirm the approximate distance between the Meter Cubicle BESCOM point and the STP Plot, so that the cable length can be considered accordingly during design and estimation.	The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars as per his independent site visit. Tender conditions prevail.
203	Vol. 2 / Sec 7, Part 12, Page no. 780	Minimum 2 Nos. of Standby Generator sets shall be provided and sized for power back up for all the STPTSPS loads quantity as mentioned in Particular Mechanical Requirements which are required for continuous operation of the corresponding STPTSPS plant during main power failure.	As per our understanding, DG Set shall be designed for all the STPTSPS loads and no separate standby DG shall be considered. Kindly confirm whether this interpretation is correct.	Bidder to refer Vol 2, Part 11, "Table 11- 1: Particular Mechanical Plant Requirement for 50 MLD capacity STP with additional secondary sludge from existing 50MLD STP at Kadabeesanahalli" for units/loads to be to connected to generator. Tender conditions prevail.
204	Vol. 2 / Sec 7, Part 13, Page no. 875	IO Modules should be hot swappable.30 Percent extra modules of installed capacity for each type of module shall be provided as spare. In addition to the above, provision shall be made for future expansion of additional 30Percent extra IO modules of the installed capacity in the panel.	As per the bidder s understanding, 30 Percent extra IO modules of the installed capacity of each type shall be supplied as spares, and only provision shall be made in the design for future expansion of an additional 30Percent IOs of the installed capacity without actual supply of modules. Kindly confirm.	Tender Conditions prevails
205	Vol. 2/Sec. 7, Part 5.44, Cl 5.221., Page no. 124	Primary Clarifier	The tender currently specifies Plate Settlers primary clarifiers, which have limited performance efficiency. We request you to please also allow Tube type Primary Clarifiers. Kindly review the request and confirm.	Tender Conditions Prevails. Refer Part-5.

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206	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 120	Cable entry to electrical panels is given as the top entry.	Kindly accept the bottom entry also for easy maintenance. Nowadays, the bottom entry to the panel is easy to operate.	Tender Conditions Prevails.
207	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of RAS pumps standby given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions prevails
208	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of WAS pumps standby given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions prevails
209	Vol 2/ Sec 7, Part 12.2, Cl. 12.3, Page 773	Power Supply Arrangement In kadubeesanahalli, at the proposed STP plant location there is no existing incomer power arrangement and hence incoming power supply shall be taken new from the nearest BESCOM substation.	Please provide distance from the nearest Bescom metering to 50 MLD STP 11 KV Outdoor ICOG VCB Panel, to consider Qty of Cables	The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars as per his independent site visit. Tender conditions prevail.
210	Vol 2/ Sec 7, Part 12.2, Cl. 12.3, Page 774	The outgoings of the 11kV Indoor panel for plant distribution shall feed. a) 2 Nos. of 11/0.433kV Distribution Transformers for STP/TSPS plant loads. b) 2 Nos of 11/0.433kV Distribution Transformers for Process Air Blowers loads.	It is currently specified to provide separate transformers for the STP/TSPS and the blower loads. Based on our experience and standard practice, we request you to kindly consider single adequately rated transformer to serve both the process (STP/TSPS) and blower loads.	Tender Conditions prevails
211	Vol 2/ Sec 7, Part 12.2, Cl. 12.3, Page 774	Liaisoning with BESCOM for getting construction power supply, making new power supply agreement for the plant, and getting final clearance from CEIG for complete. Electrical system will be included under STP Content scope.	We understand that all payments and works related to the VCB up to BESCOM metering point, including metering arrangements, approvals, and associated charges payable to BESCOM, shall be under BWSSBs scope. Accordingly, only liaisoning with BESCOM and the power cable from the BECOM metering point to the STP main panel shall fall under the Contractors scope of supply and installation. Kindly confirm our understanding on the above.	Tender Conditions prevails
212	Vol 2/ Sec 7, Part 5-3, Cl. 5.1, Page 84	SLD	In the given SLD, there is no incoming feeder for Gas Engine. Can you clarify	Can be decided during detail engineering. The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars. Tender conditions prevail..
213	Vol 2/ Sec 7, Part 8-93, Cl. 8.28 B, Page 406	The Scrubber shall be chemical type, it can be single/ double stage based on the capacity. Maximum H2S content at inlet condition shall be 5000 to 10000 ppm.	We request you to consider Biological scrubber also along with Chemical scrubber, Since biological scrubber are also proven and working well in various sites. Kindly consider.	Bidder to consider as per engine manufacturer recommendation
214	Vol 2/ Sec 7, Part 5-59, Page 141	Decanter Centrifuge system	Kindly allow Screw press/Belt Filter press for sludge dewatering system which is energy efficient. Make- Euroteck.	Tender Conditions prevails
215	Vol 2/ Sec 7, Part 8-124, Page 437	Backwash Cleaning System Each Disc will be provided with a dedicated set of backwash spray nozzles in ceramic /engineered Plastic. Filtrate will be used as the backwashing medium. Self-cleaning nozzles should be used for continuous operation. Alternatively, a 200 micron filter should be used to filter the water going to the spray nozzles to avoid nozzle clogging.	The provided specifications appear to be specific to a particular vendor. Therefore, we presume that the backwash system shall be accepted as per the manufacturers design standards. Kindly confirm.	Tender Conditions prevails
216	Vol 2/ Sec 7, Part 8-124, Page 437	Chemical cleaning A portable chemical cleaning trolley shall be provided for chemical cleaning of the filter panels. The chemical cleaning will be operated from the control panel by hooking up the chemical feed pump discharge to the chemical header provided on the filter.	Since the Disc Filter operates continuously, there is no downtime available for a chemical cleaning system. Therefore, we presume that a chemical cleaning system is not required. Kindly confirm.	Tender Conditions prevails
217	Vol 2/ Sec 7, Part 8-68, Page 381	8 18 9 High Speed Turbo Blower RFI Filter	With the improved design of modern turbo blowers, a separate RFI filter is no longer required, as this feature is already integrated into the blower design. Therefore, provision of an additional RFI filter for the system is not necessary. Kindly confirm.	Tender Conditions prevails
218	Vol 2 /Sec 7, Volume 3, Drawings	Electrical Single line diagram.	In SLD there is no provision shown for Gas Engine in the PCC 01 or in PCC 02. Since as per data sheet there is only one Gas Engine of 1500 KW to be provided, kindly confirm whether Gas provision to be given to PCC 01 load or PCC 02 Load. We understand Gas Engine with 415V and with unity power factor. Kindly confirm.	Can be decided during detail engineering. The tender contains all required information for bid preparation. The bidder shall review the complete document set and verify particulars. Tender conditions prevail..
219	Vol 2/ Sec 7, Technical Schedule, Page 126	Pump duty given 4W 2S 19 m 3 h.	Kindly confirm i MOC for sump lining, ii suction discharge pipe sizes or minimum design velocity.	Tender Conditions prevails

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Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
220	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of RAS pumps standhy given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions Prevails
221	Vol 2/ Sec 7, Part 5-38, Cl. 5.22.1, Page 129	Total No of WAS pumps standby given as 4 Nos.	Presuming that standby pumps are store standby. Kindly confirm.	Tender Conditions Prevails
222	Vol 2/ Sec 7, Part 5-47, Cl. 5.22.1, Page 141	Decanter Centrifuge system	Kindly allow Screw press/Belt Filter press for sludge deatering system which is energy efficient. Make: Euroteck	Tender Conditions Prevails
223	Volume 2/ Section 7, Part 5-54, Cl. 5.22.1 Page. No: 136	Anaerobic digester - Digestion process: Single stage high rate anaerobic mesophilic type, designed to operate with a constant liquid level with heating and dual mixing system Dual Mixing system : Biogas injection with hydraulic circulation to promote synergistic effect for reduction of VSS in the Digester	We request that the bidder be allowed to provide single mode of hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps as per his design. Moreover, bidder may propose digester heating through gas engine exhaust recovery as per his own design and requirements. Kindly confirm	The bidder shall provide hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps, subject to meeting the required mixing intensity, circulation rate, and overall performance criteria specified in the tender
224	Vol 2/ Sec 7, Project requirements, Page no 818	All type of server and computer based software should be updated to latest version of hardware and software	The tender specifies that all types of server and computer-based software should be updated to the latest version of hardware and software. Since the term 'latest version' is open-ended and subject to frequent changes, kindly clarify whether a specific baseline version (e.g., current stable release at the time of contract award) can be defined, or whether updates should be limited to security patches and critical upgrades only. This will help ensure cost predictability and avoid scope ambiguity.	Bidder to consider latest version as on date of tender notification
225	Vol 2/ Sec 7, Particular Instrumentation control and automation requirement	Hardware : LIMS Station	we request you to delete LIMs requirment from scope of work as the data of real time monitoring analyzers is connected to SCADA	All required supporting data have been furnished along with the tender documents. Tender conditions prevail.
226	Vol 2/ Sec 7, Particular Instrumentation control and automation requirement	Laboratory equipment make	pl add M/s HACH , M//s. AQUA SCIENTIFIC INSTRUMENTS PVT LTD, M/S. MYM as approved supplier for laboratory equipment	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
227	Volume 2/ Section 7, Part 8-117 , Cl. 8.26.3, Page. No: 821	for digester mixing system, there are specifications for digester recirculation pumps, digester gas mixing blowers, draft tube mixers, horizontal centrifugal pump, etc.,	Please confirm bidder can choose to provide single mode of hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps as per his design.	The bidder shall provide hydraulic mixing using horizontal centrifugal end-suction or screw-type pumps, subject to meeting the required mixing intensity, circulation rate, and overall performance criteria specified in the tender
228	Volume 2/ Section 7, Part 5-15, Cl. 5.13, Page. No: 117	Contractor is required to install thermal cameras in designated zones such as digester and biogas handling area (For the biogas requirement Refer Paragraph 5.22), these thermal cameras are additional requirements apart from CCTV monitoring system that specified elsewhere in the bidding document.	We request you to exclude the requirement for thermal cameras in digester and biogas handling areas from the scope of work.	Deleted
229	Volume 1, Apendix 6, Functional Guarantees, Page 97	**Power Consumption:** Excess consumption of electrical energy for Operating and Maintaining of STP and related facilitates	We would like to seek confirmation regarding the applicability of penalties under the tender conditions. As per our understanding, the penalty for excess power consumption shall not be applicable in cases where the influent raw sewage characteristics received at the STP differ from those specified in the tender documents. Kindly confirm whether our interpretation is correct	The penalty for excess power consumption shall not be applicable if the Influent raw sewage characteristics goes beyond the Influent raw sewage Characteristics as specified in Part 5.
230	Volume 2 / Section 7, Schedule X, Page 1207	Functional Guarantees	We would like to seek confirmation regarding the applicability of functional guarantees under the tender conditions. As per our understanding, the guarantees shall not be applicable in cases where the influent raw sewage characteristics received at the STP differ from those specified in the tender documents. Kindly confirm whether our interpretation is correct	The guarantees shall not be applicable if the Influent raw sewage characteristics goes beyond the Influent raw sewage Characteristics as specified in Part 5.
231	Vol. 2/Sec 7 Page. No: 123	Fine Screens and Channels - Multirake type bar screen with mechanical cleaning and auto jam removal	We request you to allow Step Type fine screen for STP as it is allowed in other BWSSB 100 MLD STP projects. For e.g. 100 MLD STP at Dodabelle. Kindly Confirm	Not Acceptable. Tender Conditions Prevails
232	Vol 2/Sec /, Page No. 134	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Chemical Dosing Pumps**	We request you to add following make for Dosing Pumps - Shapotools	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved

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233	Volume 2/ Section 7, Page. No: 130	Chlorination System Chlorinator Capacity Provided - 20.00 kg/h No of connected tonners to each chlorinator Nos - 5.00 No of tonners provided Nos - 15.00	We request you to restrict the nos. of store chlorine tonners to 5 nos maximum to avoid the requirement of chlorine license from the Explosive department. Moreover, the nos. of connected tonners are required as 2 Nos. as withdrawal rate per chlorintor is approximately 10 kg/hr maximum as per chlorine handbook Hence, Kindly revise the total chlorine Tonner requirement as 7 Nos. (2 Nos. working Installed + 5 nos. Store) instead of 20 nos provided in the NIT. Kindly confirm	Tender Conditions Prevails
234	Vol 2/Sec /, Page No. 854	Blower type - Centrifugal Turbo Blower with VFD Control	We request you to allow Tri lobe/Twin lobe roots Process Air Blowers for STP as it is allowed in other BWSSB 100 MLD STP projects. For e.g. 100 MLD STP at Dodabelle. Kindly Confirm	The blowers for Air Diffusers system shall be Turbo Blower/Tri Lobe type, Bidder shall ensure noise level as Per IS Code to be maintained, with necessary acoustic arrangement to be Provided by the bidder.
235	Volume 2/ Section 7, Page. No: 1206	Part 13, clause 13.26 Laboratory equipment and LIMS system	List of laboratory instruments provided in tenderis extensive and repetative. For eg- multi parameter meter for measurement of pH and conductivity is considered then separate pH meter is not required. Comparator test set/ Chloroscope and Spectrophotometer both are not required. Online turbidity measurement analyzers are provided on the field then one benchtop and one portable Turbidity meters are not required. Field test kit for cations and anions, depth sampler are not required. Online TOC measurment analyzer is provided in instrumentation then Online TOC for laboratory is not separately required. Most of these items are duplicated. Kindly confirm deletion of following laboratory items from the scope of supply i.e pH meter, benchtop turbidity meter, portable turbidity meter, field test kit for cation and anions, depth sampler, online TOC analyser and Spectrophotometer	The bidder shall consider the following to be deleted 1) Individual/benchtop, PH meter at lab 2) Portable Turbidity meter 3) Online TOC meter at lab, if the same is provided and installed as part of online multi parameter filed instrumentation.
236	Volume 2/ Section 7, Page. No: 93	2.4. Captive Power Generation during Operation and Maintenance	It is difficult for the bidder to provide guarantee for the sludge received from other STP being operated by other contractor. in view of same we request you to remove the penalty on the Capitive power generation as well as the Guaranteed not-to-reduced captive power generation under actual operating conditions for complete works as well as the formula below: CPGA = [{CPGD}*{(0.4*QA/QD)+(0.35*SA1/SD1)+ (0.25*SA2/SD2)}] Kindly confirm	Tender Conditions Prevails
237	Volume 2/ Section 7, Page. No: 130	Submersible mixers for anoxic / anaerobic / aeration / sludge sumps	The mixing power provided in the NIT is very high. We request that bidder be allowed to choose the mixer rating as per manufacturer design and CPHEEO manual to ensure proper mixing. Kindly confirm	Noted and confirmed shall comply to the performance requirement as specified in the tender.
238	Vol 2/Sec7	Blower type: Centrifugal turbo blower with VFD type	we request both centrifugal /Tri lobe blowers for aeration tank is allowed	The blowers for Air Diffusers system shall be Turbo Blower/Tri Lobe type, Bidder shall ensure noise level as Per IS Code to be maintained, with necessary acoustic arrangement to be Provided by the bidder.
239	Vol 2/Sec7	MOC of wetted parts Primary, Secondary clarifier mechanisms	the clarifier mechanism shall be MS with epoxy painted	Noted and Confirmed
240	Vol 2 / Sec 7	Minimum list laboratory equipment to be provided are detailed as below	list of lab equipments shall be as per bidders design ,pls confirm	Same can be finalised during detailed engineering
241	Vol 2 / Sec 7	Chlorination System: Chlorinator Capacity Provided: 20.00 kg/h No of connected tonners to each chlorinator Nos - 5.00 No of tonners provided Nos: 15.00	Chlorination system shall be as per bidder design	Tender Conditions Prevails
242	Vol 2 / Sec 7	Part 11,Major Equipment List	Shall be bidder design,pls confirm	Tender Conditions Prevails
243	Vol 2 / Sec 7	Part 11,Major Equipment List	Shall be bidder design,pls confirm	Tender Conditions Prevails
244	Volume 2 / Section 7	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Turbo Air Blowers**	Additional vendors shall be proposed by bidder during execution,pls confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved

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245	Volume 2 / Section 7	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Disc filter**	Additional vendors shall be proposed by bidder during execution,pls confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
246	Volume 2 / Section 7	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Chlorination System**	Additional vendors shall be proposed by bidder during execution,pls confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
247	Volume 2 / Section 7	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Cranes**	Additional vendors shall be proposed by bidder during execution,pls confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
248	Volume 2 / Section 7	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Bio textiles**	Additional vendors shall be proposed by bidder during execution,pls confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
249	Volume 2 / Section 7	Approved Vendor/ Manufacturer/ Make List - Mechanical Equipment **Strip type diffusers**	Additional vendors shall be proposed by bidder during execution,pls confirm	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
250	Volume 2 / Section 7	Capacity of biogas scrubber : 800m3/hr	Scrubber shall be as per bidder design,pls confirm	Shall be based on Detailed Engineering
251	Vol 2/ Sec 7	2.4. Captive Power Generation during Operation and Maintenance	power guarantee will be provided for the plant designed by the bidder , sludge from exisiitng plant shall not be considered	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.
252	Vol 2/ Sec 7	MCC / PCC panel boards shall be offered for final inspection at the OEM's works with routine tests.	As per the vendor list provided in the tender the Authorized System Integrators of the respective OEMs are also approved for manufacturing of the panels. We understand that the testing of the panels shall be done at the manufacturer's works and not at the principal OEM. Please confirm.	Tender Conditions Prevails.
253	Vol 2/ Sec 7	The LV switchboards shall be type tested assemblies (TTA) fully meeting the requirements of IEC 61439 – 1 & 2 for design verified assemblies. The eligible switchboard suppliers shall be Original Equipment Manufacturer (OEM) only with their own range of ACBs, MCCBs, Power Contactors & other switchgear devices. The switchboards shall be manufactured, design & tested by OEM at their own works.	As per the vendor list provided in the tender the Authorized System Integrators of the respective OEMs are also approved for manufacturing of the panels. We understand that the panels manufactured by the Authorized System Integrator of the OEM is also acceptable. Please confirm.	Tender Conditions Prevails.
254	Vol 2/ Sec 7	Thickness of CRCA Sheet the panel doors shall be 2.5mm or over and for the rest shall be 2.0mm or over	As a standard for TTA design assembly of respective vendors, the panels are manufactured with a CRCA sheet thickness of 2.0mm for doors and body and 1.6mm for internal partitions. We request you to consider the same.	Tender Conditions Prevails.
255	Vol 2/ Sec 7	Intelligent motor protection relay	We understand that the LV panels are TTA assembly panels with regular starter and supply feeders. The mentioned motor protection relay is Microprocessor based motor protection device only. Please confirm.	Bidder understanding is correct with respect to motor protection relay.
256	Vol 2/ Sec 7	Operating logic of the AMF panel.	The auto changeover logic during mains fail and mains restoration cannot be fulfilled as mechanical interlocks are to be provided between Mains Incomer, DG incomer and Bus coupler. The DG set can be started in auto mode during main failure and the power shall be available at the DG incomer breaker. The changeover has to be done manually. On mains restoration after the load is transferred on the mains power the DG set shall stop in auto mode after the cool down cycle. Please confirm.	Tender Conditions Prevails. Bidder to refer Vol 2, Part 12, Cl. No.12.4.9 for AMF panel operation logic.
257	Vol 2/ Sec 7	1) All VFD's shall be ultra-low Harmonic and shall have one of the two configurations given below Suitable for induction motor protection of all types confirming to IS 12615 / IEC 60034 / IS/IEC 60947/ IEC 947 2) Drives shall have ultra-low harmonic drive (ULH) to reduce harmonic reduction to less than 5% THDi (total harmonic distortion-current and voltage). Modern, compact, all-in-one solution that ensures harmonics are mitigated at source at all loads when connected to either a mains or generator supply.	As per IEEE 519 norms the total harmonics are measured at the Point of common coupling i.e at the main PCC incomer and not at individual VFD incomers. We request to consider the overall harmonic limitation of the system by installing additional harmonic filters as applicable. Please confirm.	Tender Conditions Prevails.

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258	Vol 2/ Sec 7	The drive rating 22kW and above there is a separate (VFD panel) panel shall be provided and installed in Air Condition room, it shall not club with PCC / MCC panels.	We suggest to place the VFD panels in ventilated rooms with proper de-ration of the VFDs. If the room is made Air Conditioned there will be no forced ventilation in the room and in case of failure of Air Condition there will be no air circulation which may create heating issues within the VFD panels. The ventilations shall be such that the ambient temperature is maintained near to the VFD design temperature. Please confirm.	Tender Conditions Prevails.
259	Vol 2/ Sec 7	Bus duct shall be provided for all transformer/ DG ratings of 1000kVA and above	As the location of DG set may not be adjacent to the main panel room, providing bus duct shall not be possible. Kindly consider cables for connecting DG set with the main panel.	Tender Conditions Prevails.
260	Vol 2/ Sec 7	For LT motors of 18kW and above, power junction boxes shall be provided where 3 core aluminium shall be terminated, and copper flexible cables shall be taken from it to the motor terminals.	It is not advisable to provide junction boxes for all motors of 18KW and above as it may lower the reliability during the regular O&M. All motors have large size cable termination box suitable for direct termination of aluminium cables. For submersible pumps a junction box shall be provided for all ratings. Please confirm.	Tender Conditions Prevails.
261	Vol 2/ Sec 7	1) Solar PV Rooftop system for street lighting only 2) Batteries (for 12Hr back up) are to be provided for the solar system.	The two clauses are contradictory. As per clause 6.16.1, The solar roof top system shall be grid connected based on Net Metering Regulation of MPERC as amended up to date. Hence the storage batteries shall not be applicable. Please confirm.	The bidder may consider the Solar Roof Top PV system without grid connected type. Tender Conditions Prevails for other sections of the tender.
262	Vol 2/ Sec 7	11 kV Metal enclosed switchboards	Please consider the Authorized System integrators of the respective OEMs for manufacturing of 11 KV Metal enclosed Switchboards.	Tender Conditions Prevails.
263	Vol 2/ Sec 7	Electrical Single Line Diagrams	We understand that the Single Line Diagrams are for reference only. Bidder can design his own power distribution scheme based on the plant layout and equipment load. Please confirm.	Confirmed. Particular to Single Line Diagrams, the bidder may consider as reference for Bidding and Detail Engineering.
264	Vol 2/ Sec 7	Minimum 2 Nos. of Standby Generator sets shall be provided and sized for power back up for all the STP/TSPS loads (quantity as mentioned in Particular Mechanical Requirements) which are required for continuous operation of the corresponding STP/TSPS plant during main power failure. 10% contingency over these loads shall be considered while sizing the DG Set.	We understand that the loads which are critical for process operation are to be considered for DG set sizing along with the additional contingency. Also the no of DG sets shall be finalized based on the actual rating during detail engineering. Please confirm.	Tender Conditions Prevails. Bidder to refer Part-11 for critical units to be connected to standby generator.
265	Vol 2/ Sec 7	Bus duct shall be considered for handling short distance high current requirement i.e., from transformer secondary to 415V PCC / 415V Main LT panel & DG PCC panel to 415V PCC / 415V Main LT panel. Bus duct shall be considered for power requirements greater than 1000kVA.	As the location of DG set may not be adjacent to the main panel room, providing bus duct shall not be possible. Kindly consider cables for connecting DG set with the main panel.	Tender Conditions Prevails.
266	Vol 2/ Sec 7	Active Harmonic Filters	We suggest to provide Tuned Passive Harmonic Filters instead of Active Harmonic Filters as AHF are themselves IGBT based equipment which generates reverse harmonics and inject them into the system. Whereas Tuned Passive Harmonic Filters does not inject any additional harmonics in the system and removed the harmonics from the system. Also PHFs are more reliable and long lasting than AHFs. Kindly consider the same.	Tender Conditions Prevails.
267	Vol 2/ Sec 7	Bus bar insulation - Fully insulated by encapsulation in epoxy resin with mould caps protecting all joints.	We request to consider HT sleeve for busbar insulation instead of epoxy resin as it will be easy for maintenance during the entire period of O&M. Please confirm.	Tender Conditions Prevails.
268	Vol 2/ Sec 7	Thickness of sheet steel for Frame - 2.5mm Thickness of sheet steel for Doors / covers / Partitions - 2.0mm	As a standard product design of respective vendors, the panels are manufactured with a CRCA sheet thickness of 2.0mm for doors and body and 1.6mm for internal partitions. We request you to consider the same.	Tender Conditions Prevails.
269	Vol 2/ Sec 7	Bus bar insulation - Fully insulated by encapsulation in epoxy resin with mould caps protecting all joints.	We request to consider PVC colour coded sleeve for busbar insulation instead of epoxy resin as it will be easy for maintenance during the entire period of O&M. Please confirm.	Tender Conditions Prevails.
270	Vol 2/ Sec 7	150% Overload for 2 minutes once in period of 24 Hours	The Heavy Duty application rating of the VFDs manufactured by various manufacturers is 150% overload for 60 seconds. Kindly consider the same.	Bidder may consider.

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271	Vol 2/ Sec 7	Less than 5%	As per IEEE 519 norms the total harmonics are measured at the Point of common coupling i.e at the main PCC incomer and not at individual VFD incomers. We request to consider the overall harmonic limitation of the system by installing additional harmonic filters as applicable. Please confirm.	Tender Conditions Prevails.
272	Vol 2/ Sec 7, Part 12-3 & 12-4, Page no. 774	The Bidder shall clearly indicate the guaranteed daily power consumption for the proposed works in Technical Schedule-X. The guaranteed value shall be expressed in kWh/day and shall not fall above the 5% of the budgeted benchmark power consumption of 26,650 kWh/day for 50 MLD STP at Kadabeesanahalli as stipulated by the Employer. The Bidder shall also provide detailed load list calculations in the prescribed format only to substantiate the power consumption. Similarly, the Bidder shall also clearly indicate the guaranteed monthly captive power generation for the proposed works in Technical Schedule-X. The guaranteed value shall be expressed in kWh/month and shall not fall below the 10% of the revenue benchmark for captive power generation of 5,22,000 kWh/month as stipulated by the Employer for 50 MLD STP at Kadabeesanahalli. The Bidder shall also provide detailed calculations to substantiate the captive power generation guarantee like bio-gas yield, engine efficiency, auxiliary loads etc., Additionally, the bidder shall consider a minimum bio-gas engine operating hour of 425 Hours/month.	Refer to the Power consumption requirement mentioned in the stated clause of Part 12, please note that the Guarantee for Power consumption in KWH / day shall be specified by the bidder only. Any kind of guarantees for the power consumption mentioned in the specifications is not acceptable. Bidder shall provide his own guarantee for power consumption in Technical Schedule X - Functional Guarantees, which shall only be applicable and the same shall govern. Please confirm.	The benchmark values provided in tender are indicative. However, the bidder has to give the guarantees the minimum power generation as per relevant technical schedule.
273	Vol 2/ Sec 7, Part 10B-19, Page no. 741	All Hand railings shall be made up of Stainless Steel 304 confirming to ASTM A-240M. Height of railing not less than 1200 mm. Stainless steel handrails of 10S pipe for ramps, staircases, walkway, chambers and Channels etc.	MOC of handrailing pipes shall be SS-304 Schedule - 5 . Kindly confirm.	Tender Conditions Prevails
274	Vol 2/ Sec 7, Part 5-20, Page no. 102	Flowmeters shall be installed on the overflow pipe and all flow events shall be recorded through PLC SCADA.	We request you to kindly remove the flow measurement system from the gravity line.	Tender condition prevails .Bypass flow shall be measured with ultrasonic flow measurement.
275	Vol 2/ Sec 7, Part 12, DG Set	Minimum 2 Nos. of Standby Generator sets shall be provided and sized for power back up for all the STP/TSPS loads which are required for continuous operation of the corresponding STP/TSPS plant during main power failure. The critical loads of the plant shall run on DG Set.	Kindly clarify the critical loads of the plant shall run on DG Set. (50% or 100%?)	Bidder to refer Vol 2, Part 11, "Table 11- 1: Particular Mechanical Plant Requirement for 50 MLD capacity STP with additional secondary sludge from existing 50MLD STP at Kadabeesanahalli" for units/loads to be to connected to generator. Tender conditions prevails.
276	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	TTA Panels in all respects, suitable for service operations and capable of withstanding the stresses to the seismic conditions. The offered design shall meet the requirements of IEC 60068-2-57, & IEC 60068-3-3	As per Indian Standard, All switchboards must be suitable for Seismic Zone as per IS 1893 part-1 or IEC Standard.	Can be decided during detail engineering based on review of type test reports.
277	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The switchboards shall be manufactured, design & tested by OEM at their own works.	As per the IEC-61439, OEMs design core systems and components, while assemblers (Authorized Licence Integrator) integrate these into the final, typetested assembly	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.
278	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	multi fold design for structural members (9-fold design) with impact test as per IEC 62262, Any manufacturer not having the above will not be considered for supply	Panel structural design is part of OEM design as per IEC standard and as per their type test certfication	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.
279	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Panels shall be tested to withstand internal arc fault of 50kA, 0.4 seconds and valid Type Test Certification shall be provided as per IEC61641	As per IEC-61641- Duration of the test will be between 0.1Sec and 0.5Sec with specific note- When HV Protection equipment is relied upon to isolate a fault the permissible arc duration of the incoming switching device in general will be 0.3 Sec to allow for the operation of the equipment.	Can be decided during detail engineering based on review of type test reports
280	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The design temperature for the equipment provided in the main low voltage switchboards shall be + 45 DEG C	The design temperature for the equipment provided in the main low voltage switchboards shall be + 40 DEG C & Above.	Confirmed.
281	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The compartmentalization to be achieved by using metal or FRP separators, use of PVC sheet / Hylam sheets shall not be allowed.	As per IEC-61439 standards, internal compartmentalization (segregation) must use non-combustible materials like Metal or FRP (Fiber Reinforced Polymer).	Tender Conditions Prevails.
282	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The switchgear shall be metal enclosed, suitable for top cable entry,	The switchgear shall be metal enclosed, suitable for top or Botton cable entry as per the requirement.	Tender Conditions Prevails.
283	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Degree of Protection shall be IP54 for indoor & IP55 for Outdoor.	Degree of Protection shall be IP4X for indoor & IP5X for Outdoor	Tender Conditions Prevails.
284	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Thickness of CRCA Sheet the panel doors shall be 2.5mm or over and for the rest shall be 2.0mm.	Thickness of CRCA Sheet the panel doors shall be as per OEM design and type test report which is compliance with the IEC-61439 standard.	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.

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285	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	A separate horizontal enclosure for all auxiliary power and control buses, if required.	A separate horizontal enclosure or Sepration/Compartmenalized for all auxiliary power and control buses, if required.	Tender Conditions Prevails.
286	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Vertical cable alley of 250mm wide covering entire height.	Vertical cable alley height is as per OEM design and type test report which is compliance with the IEC-61439 standard. .	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.
287	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	20% spare feeders with at least one for each type of highest rating shall be provided in each switchgear.	Spare feeders shall be provided as per SLDs.	Tender Conditions Prevails.
288	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Interchangeability - All identical equipment and corresponding parts be fully interchangeable without any modifications.	Interchangeability of Switchboard and Switchgear shall be as per customer agreement and requirement.	Can be decided during detail engineering.
289	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	All sheet steel work shall be phosphate coated in accordance with the following procedure and in accordance with IS: 6005 "Code of Practice for Phosphate coated Iron and Steel"	All sheet steel work shall be as per OEM design and Type test report which is compliance with the IEC-61439 standard.	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.
290	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	After phosphate coated, thorough rinsing shall be clean water followed by final rinsing with dilute dichromate solution and even drying. The phosphate coating shall be followed by the application of two coats of ready mixed stoving type zinc chromate primer.	All sheet steel work shall be as per OEM design and Type test report which is compliance with the IEC-61439 standard.	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.
291	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The final finished thickness of paint film on steel shall not be less than 80 microns and shall not be more than 120 microns.	The type of paint finish shall be powder coated with paint shade RAL 7035. The paint thickness shall not be less than 70 microns.	Tender Conditions Prevails.
292	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Closing coils and other auxiliary devices shall operate satisfactorily at all voltages between 85 - 110% of the control voltage. Trip coils shall operate satisfactorily between 70 - 110% the rated control voltage.	Control voltage of any switchgear products shall be as per OEM design	Tender Conditions Prevails.
293	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The ACB shall be 4 pole with modular construction, draw out, manually operated.	The ACB shall be 3 pole or 4 pole with modular construction, draw out, manually or electrically operated.	Bidder understanding is correct. However incomer ACB of PCC and MCC panels shall be 4 Pole. Tender Conditions Prevails.
294	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The Breaker shall be provided with Microprocessor based Protection unit for Inverse-time delayed overload releases for the phases, Short-time delayed short-circuit releases and earthfault releases.	The Breaker shall be provided with Microprocessor based Protection unit with overload (long-time delay), short-circuit (short-time and instantaneous), ground fault (earth fault), and neutral protection.	Bidder understanding is correct .
295	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	ACB shall be provided for Incoming side of the PCC / MCC from transformer irrespective of rating of feeder.	ACB or MCCB shall be provided for Incoming side of the PCC / MCC from transformer irrespective of rating of feeder.	Tender Conditions Prevails. Bidder to refer Vol 2, Part 12, Cl. No. 12.4.11 for selection of ACB/MCCB feeders based on feeder rating.
296	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Supervision of the network quality (Total Harmonic Distortion) in Intellegent Motor Protect Relay	Not required in Intellegent Motor Protection relay.	Bidder understanding is correct with respect to motor protection relay.
297	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	MCCB- Electronic / Microprocessor Trip Unit shall be equipped with internal battery to power the display in no load conditions.	MCCB shall be without display and only required for Thermal-Magnetic and Microprocessor based protection.	Bidder understanding is correct with respect to MCCB
298	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Metal enclosed switchgear IS/IEC 60947/ BSEN 60298 / IEC: 60298	Metal enclosed switchboard - IS/IEC 61439	Bidder understanding is correct with respect to Low Voltage Panels
299	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	Capacitors shall be of Mixed Dielectric of polypropylene and paper with internal element fuses. The impregnate shall be non-PCB (poly chlorinated biphenyl) oil.	Capacitors shall be of Mixed Dielectric of polypropylene or metallized polypropylene film wound around a core. The impregnate shall be non-PCB (poly chlorinated biphenyl) oil. either a biodegradable inert gas or a semi-solid epoxy/viscous resin.	Bidder understanding is correct
300	Vol 2/ Sec 7, Part 12, Particular Electrical General Requirement	The Soft start panel shall be indoor, metal clad, floor standing, compartmentalised complete with reactors	Reactor is not required with Soft Starter	Reactor is applicable in case of soft starters other than Electronic type.
301	Vol 2/ Sec 7, Part 5-28 & 5-33, Cl. 5.2, Page 110 & 115	Protection shall be provided for soft starters (semiconductor fuse).	Protection of Soft Starter is as per OEM	Bidder understanding is correct
302	Vol 2/ Sec 7, Part 5-29, Cl. 5.2, Page 111	Total harmonic distortion (THD). - Soft Starter	THD not required in Soft Starter	Applicable for Soft Starters of Electronic Type
303	Vol 2/ Sec 7, Part 12	(1) Switchgear busbars shall be of uniform cross section throughout the length and made of high conductivity, electrical grade hard drawn copper conductor with a minimum crosssectional area of 1.60Amp / Sq.mm current density throughout the length.	We request you to kindly accept : Main busbars shall be of made of Aluminium and shall be in accordance with the OEM type test Design / reports.	Tender Conditions Prevails.
304	Vol 2/ Sec 7, Part 12	(2) All busbars shall be insulated with close fitting sleeve of hard, smooth, dust and dirt free, heat shrunk PVC insulation of high dielectric strength, to provide a permanent nonageing and non-tracking protection, impervious to water,tropicalconditions and fungi.	We request you to kindly accept : shall be in accordance with the OEM type test Design / reports.	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.

BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)

NAME OF PROJECT : DESIGN CONSTRUCTION, AND COMMISSIONING OF 50 MLD STP BASED ON SBR WITH BNR, TERTIARY TREATMENT AND POWER GENERATION WITH ADDITIONAL SECONDARY SLUDGE FROM EXISTING 50 MLD STP & ODOUR CONTROL UNITS AT KADABEESANAHALLI INCLUDING 7 YEARS OF OPERATION & MAINTENANCE (TURNKEY CONTRACT) - 2nd Call

REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED 13.02.2026

Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
305	Vol 2/ Sec 7, Part 12	(3) Busbar joints shall be provided with contact grease at the joints and shall be complete with tensile steel bolts and Belleville washers and nuts.	We request you to kindly accept : shall be in accordance with the OEM type test Design / reports.	Noted and Acceptable for only OEM makes as mentioned in tender. For makes other than OEM, Tender Conditions Prevails.
306	Vol 2/ Sec 7, Part 12	11KV Metal enclosed switchboards	We request to add: Jyoti, CG Power, Lauritz knudsen make and Auth. System Integrator of Specified Approved makes of OEM.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
307	Vol 2/ Sec 7, Part 12	Distribution Transformer	We request to add: Transformers & Rectifiers india limited	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
308	Vol 2/ Sec 7, Part 12	LV Switchgear & control gears (PCC's / MCC's / PDB's)	We request to add: C&S make	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
309	Vol 2/ Sec 7, Part 5-29, Cl. 5.2, Page 111	Online ORP Analyzer at CCT	We request to Delete the online ORP Analyzer at CCT. As per tender FRC Analyzer required at CCT hence technically ORP Analyzer is not required.	Can be decided during detail Engineering.
310	Vol 2/ Sec 7, Part 5-29, Cl. 5.2, Page 111	Online TKN Analyzer at Raw Sewage at TSPS	We request to Delete the online TKN Analyzer at Raw Sewage TSPS. As per Tender Ammonic-N Analyzer required at Raw Sewage at TSPS hence technically TKN Analyzer is not required.	Tender Conditions Prevails.
311	Vol 2/ Sec 7, Part 5-30, Cl. 5.2, Page 112	Online Nitrate-N Analyzer at each Aerobic Zone	We request to Delete the online Nitrate-N Analyzer at each Aerobic Zone.	Tender Conditions Prevails.
312	Vol 2/ Sec 7, Part 5-30, Cl. 5.2, Page 112	Online Total Phosphrous Analyzer at Plant Inlet	We request to Delete the online Total Phosphrous Analyzer at Plant Inlet because this analyzer work on wet chemistry principal and failure rate is very high due to chocking of wet part of Analyzer due to raw sewage.	Tender Conditions Prevails.
313	Vol 2/ Sec 7, Part 16-63 to 13-65 Cl. 13.3, Page 880-882	Minimum IO Requirement for Auto mode Control operation of the plant -For HT/LT Breaker 10DI/2DO / 1AI/1AO -For unidirectional LT Drive 9DI/2DO/1AI/1AO -For Bidirectional LT Drive 7DI/2DO/1AI/1AO -For Actuator 9DI/2DO/1AI -For Pump and Motor Winding and bearing Temp. 11AI	We presume that these much IO's is not required for auto mode control Operation of plant . We request to allow consider the following IO;s for various equipment for auto mode operation. -For HT/LT Breaker 3 DI (On, Off, Trip), 2DO (Start command, Stop Command0 -For unidirectional LT Drive 3 DI (A/M, On/Off, Trip), 1DO (Start/ Stop Command) -For Bidirectional LT Drive 3 DI (A/M, On/Off, Trip), 1DO (Start/ Stop Command) -For Actuator 4 DI (L/R, Open, Close, Trip), 2DO (Open Command, Close Command) -For Pump and Motor Winding and bearing Temp. Temp Scanner shall be used inpalce of Analog Input	Can be reviewed during Detail Engineering.
314	Vol 2/ Sec 7, Part 13-11, Cl. 13.3, Page 828	Design, supply, install, test and commission a dual redundant PLC based SCADA system for STP. The system shall include on a minimum , but not limited to process controller including its central process units (CPUs in redundant configuration), redundant communication modules, RIO's as required, Simplex input-output (I/O) modules(Hot swappable), redundant I/'O's for critical inputs (Minimum 25% of total I/O considered),control networks, servers, Historian server and software, operator workstations, engineering workstation and printers	We Request to delete redundant I/'O's for critical inputs (Minimum 25% of total I/O considered). As per Tender 30% extra IO Module's are already required. We also Request to delete the redundancy of CPU and communication module and becuase the plant process is not so critical to required redundency of CPU and Communication module and allow stanalone CPU and Communication module inplace of redundency.	Tender Conditions Prevails.
315	V-I, Pg. No. 11 of 142, Cl. 3.1.2 (b)	(i) Experience in Execution of STPs The Applicant as a sole entity or Partner in a Joint Venture shall have successfully executed, including complete Design, Procurement, Supply, Installation, Construction, Testing, and Commissioning of all Civil, Mechanical, Electrical, and Instrumentation Works of minimum One (1) No. Sewage Treatment Plant of 40 MLD Capacity, based on the Sequencing Batch Reactor (SBR)/Activated Sludge Process (ASP) with fine Filtration (Disc Filter/Ultrafiltration) to meet the discharge standards of pH - 5.5 to 9.0, BOD - 10 mg/l, COD - 50 mg/l, TSS - 10 mg/l, TN-10 mg/l, TP-1 mg/l and Fecal Coliform - 230 MPN/100 ml and should be in operation for at least Two (2) years in last five (5) years from date of tender notification.	Please note that the said outlet parameters asked in the said pre-qualification can be achieved without fine filtration (Disc Filtration/Ultra Filtration). Hence, we presume that if the bidder is having experience of completed 40 MLD STP without fine filtration (Disc Filtration/Ultra Filtration) to achieve the outlet parameters as pH - 5.5 to 9.0, BOD – 10 mg/l, COD - 50 mg/l, TSS - 10 mg/l, TN-10 mg/l, TP-1 mg/l and Fecal Coliform - 230 MPN/100 ml then the bidder must not required to demonstrate the experience of fine filtration (Disc Filtration/Ultra Filtration). Please Confirm.	Tender condition Prevails.

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REPLY TO PRE-BID QUERIES, PRE-BID MEETING DATED 13.02.2026

Sr. No.	Vol.No. / Pg. No.	Description	Bidder's Query	BWSSB Replies
316	V-I, Pg. No. 11 of 142, Cl. 3.1.2 (b)	(i) Experience in Execution of STPs The Applicant as a sole entity or Partner in a Joint Venture shall have successfully executed, including complete Design, Procurement, Supply, Installation, Construction, Testing, and Commissioning of all Civil, Mechanical, Electrical, and Instrumentation Works of minimum One (1) No. Sewage Treatment Plant of 40 MLD Capacity, based on the Sequencing Batch Reactor (SBR)/Activated Sludge Process (ASP) with fine Filtration (Disc Filter/Ultrafiltration) to meet the discharge standards of pH - 5.5 to 9.0, BOD - 10 mg/l, COD - 50 mg/l, TSS - 10 mg/l, TN-10 mg/l, TP-1 mg/l and Fecal Coliform - 230 MPN/100 ml and should be in operation for at least Two (2) years in last five (5) years from date of tender notification.	Alternatively, it is requested to accept the operational experience in the said clause for One Year instead of Two Years. There are very few STP projects that have already been constructed and are in operation with fine filtration (Disc Filtration/Ultra Filtration); hence, the request is.	Tender condition Prevails.
317	V-I, Pg. No. 19, Cl. 13.2	The Tenderer can pay the Earnest Money Deposit (EMD) in the e-procurement portal using any of the following Modes: 13.3.1 Direct Debit using internet banking (online payment) 13.3.2 NEFT (online payment) 13.3.3 Over the Counter (OTC)	Earnest Money Deposit (EMD) for the said tender is Rs. 1.47 Crore; which is really huge and hence it is requested to accept the EMD in the form of Bank Guarantee. Please confirm.	Tender Conditions Prevails.
318	V-I, Pg. No. 21, Cl. 15.1	The tenders should be uploaded only through e-portal system.	As per the said clause, we presume that there will be no physical/hard copy submission. Please confirm.	Confirmed.
319	V II, Sect 7 Part 1-2, Scope of Work	All preparatory work including clearing, dewatering if water logged, levelling of site to Natural Ground Level (NGL), site filling, site grading, formation of Finished Ground Level (FGL),construction of internal roads with drains, all around compound wall etc., excavation, dewatering as required and disposal of all surplus earth to a suitable location as specified/directed by Engineer.	It is requested to specify the suitable location for disposal of the extra surplus excavated earth from the Proposed STP Premises. Please Confirm.	Bidder to field Verify.
320	V II, Sect 7 Part 5-4, Cl. 5.10	Demolition or Interfaces and Tie-Ins with Existing Facilities All existing facilities that are to be demolished shall be properly decommissioned, removed, and appropriately disposed-off by the Contractor in accordance with all applicable laws, regulations, and standards.	We presume that the disposal site to dispose off debris shall be made available by the Client. Kindly provide the distance of disposal site from STP premises	Bidder to field Verify.
321	V II, Sect 7 Part 5-36, Cl. 5.22	TSPS & STP Design/Sizing Criteria and Minimum Requirements **Coarse Screens and Channels** Screen type - Multirake type bar screen with mechanical cleaning and auto jam removal No of Units - Working - Nos - 2.00 No of Units - Standby - Nos - 1.00 Design flow per unit - m3/s - 0.652 Angle of inclination of screen - deg. - 75.00 Side Water Depth (Maximum) - m - 1.00 Velocity through screen openings at peak flow - m/s - 0.90	The latest edition of CPHEEO manual recommends velocity through screen as 0.6-1.2 m/sec at peak flow. Hence, we understand that the same is applicable here. Kindly Confirm.	Tender Conditions Prevails.
322	V II, Sect 7 Part 5-42, Cl. 5.22	TSPS & STP Design/Sizing Criteria and Minimum Requirements **Grit Chamber** Grit Chamber Type - Vortex grit system With Grit withdrawal, Dedicated washing & grit discharge conveying mechanism) Grit generation rate - m3/ mL - 0.150 Maximum organic content in disposable grit - % - 3.00 No of grit chambers Working - Nos - 2.00 Number of grit chambers Standby - Nos - 1.00	We presumed that the 3 grit chambers are designed for equal peak flow. With 1 Standby Channel. Kindly Confirm.	Tender Conditions Prevails.
323	V II, Sect 7 Part 5-42, Cl. 5.22	SPS & STP Design/Sizing Criteria and Minimum Requirements	We understand that the 100% stand by is required for each Basin. Kindly Confirm	Tender Conditions Prevails.

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324	V II, Sect 7 Part 5-42, Cl. 5.22	TSPS & STP Design/Sizing Criteria and Minimum Requirement **Return Activated Sludge (RAS) Pumps (Optimal)** Minimum RAS Ratio based on average inlet flow to each SBR tank - %: 35.00 No of RAS pumps in each SBR tank - working - Nos: 1.00 RAS pump capacity - m3 h: 370.00 No of RAS pumps in each SBR tank - standby - Nos: 1.00 Total No of RAS pumps -working - Nos: 4.00 Total No of RAS pumps -standby - Nos: 4.00	We understand that bidder shall provide all process units as per process requirement and design guidelines given in the CPHEEO manual. Sizes mentioned in table is not mandatory. Kindly Confirm.	Bidder to note that any change in number of units as specified in the tender will not be allowed. The units, size volumes, equipment capacities and system configurations should be as per CPHEEO / international standard references and with respect to tender specifications and complying to the performance criteria as specified in tender.
325	V II, Sect 7 Part 5-42, Cl. 5.22	TSPS & STP Design/Sizing Criteria and Minimum Requirement **Treated Effluent Quality Requirements** pH - Instantaneous range: - : 6.5-8.0 BOD_5 at 20°C - Maximum monthly average: mg/L: 10.00 COD - Maximum monthly average: mg/L: 50.00 TSS - Maximum monthly average: mg/L: 10.00 NH4-N - Maximum monthly average: mg/L: 0.50 TN - Maximum monthly average: mg/L: 10.00	It is requested to accept the NH4N is 1 mg/l at effluent. During nitrification and denitrification process NH4N 1 mg/l is achieved. Kindly Confirm.	It shall be 1 mg/L
326	V II, Sect 7 Part 8-138, Cl. 8.39	Approved Vendor / Manufacturer / Make List-Mechanical Equipment	The bidder has to operate & maintain the facilities for 5 years; it is requested to let the bidder select the make of equipment considering its continuous performance for a longer period. This will help in selecting and providing reliable equipment which requires less maintenance during the O&M period.	Tender conditions prevails. However, vendor approved in earlier projects and having installed references in BWSSB will be considered as approved
327	V II, Sect 7 Part 5-42, C	Process Flow Diagram	The capacity and inlet parameters for septic tank are not provided in the tender specification. Hence, we presumed that the same is not mandatory. Please Confirm.	Tender Conditions Prevails.
328	General	Buildings constructed under contract	As the O&M period is of 7 years, the buildings such as administrative buildings, workshop, etc. constructed under contract will be allowed for use of the contractor during the O&M period without any extra cost. Please confirm.	Can be discussed during detail Engineering.
329	General	Site office / Contractors' office provided during execution of contract	As the O&M period is of 7 years, we request the site office, contractor's office, staff quarters, temporary sheds, etc. provided during construction will be used by the bidder during the O&M period without demolishing the same. Please confirm.	Can be discussed during detail Engineering.
330	General	Date of Submission	Looking to the volume of work involved in tender preparation, we request to extend the date of submission at least by 3-4 weeks after receipt of the reply to Prebid queries.	Tender Conditions Prevails.

Addl. Chief Engineer
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BWSSB

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